

**Gene expression profiles distinguish Idiopathic Pulmonary Fibrosis from
Hypersensitivity Pneumonitis**

Moises Selman, Annie Pardo, Lourdes Barrera, Andrea Estrada, Susan R. Watson,
Keith Wilson, Natasha Aziz, Naftali Kaminski, and Albert Zlotnik

Online Data Supplement

Materials and Methods

Study Population

Twelve patients with biopsy-confirmed HP, fifteen with IPF, and eight with NSIP-like pattern were included in this study. This protocol was approved by the Ethics Committee of the National Institute of Respiratory Diseases (Mexico City), and informed written consent was obtained from each patient. Diagnosis of HP induced by avian antigens [12 females, 45.6 ± 10.5 years (mean \pm S.D.)] was established according to the following criteria (E1): a) Exposure to pigeon antigens prior to the onset of the disease, and positive serum antibodies to avian antigens, as detected by ELISA. b) Clinical, radiological, and functional features of interstitial lung disease; c) More than 35% of lymphocytes in the bronchoalveolar lavage; d) Chest high-resolution computed tomography (HRCT) showing diffuse centrilobular poorly defined micronodules, ground glass attenuation, focal air trapping and mild/moderate fibrotic changes and e) Lung histology. Morphological evaluation in HP showed diffuse interstitial inflammation, primarily around bronchioles with mononuclear predominance, mainly lymphocytes, and multinucleated giant cells or small and loosely arranged granulomas. Biopsy cultures were negative for bacteria and fungi, and no changes suggestive of other ILD were found.

Diagnosis of IPF (11 males, 4 females, 59.7 ± 8.0 years) was supported by history, physical examination, pulmonary function studies, HRCT, and bronchoalveolar lavage findings, and was confirmed by open lung biopsy (E2). The morphologic diagnosis of IPF was based on typical microscopic findings of usual interstitial pneumonia (E3). Biopsies lacked granulomas, vasculitis, microorganisms, and inorganic material as judged by polarized light microscopy. Patients receiving the IPF diagnosis

fulfilled the criteria of the American Thoracic Society and the European Respiratory Society (E2).

Diagnosis of NSIP (7 female, 1 male, 45.9 ± 11.1 years) was suspected in patients with a diffuse interstitial pneumonia that did not meet the clinical/radiological criteria for other IIP and was based primarily on histology. Lung biopsies were characterized by the presence of a temporary homogeneous lesion with a uniform thickening of alveolar septa exhibiting varying degrees of inflammation and fibrosis, but without specific changes that would indicate a diagnosis of other IIP or HP (E4). Patients with known causes of interstitial lung disease, such as collagen vascular disease and drug toxicity, were excluded from the study.

Tissue samples were taken by open lung biopsy usually one week after hospital admission. None of the patients had been treated with corticosteroids or immunosuppressive drugs at the time of biopsy. Lung samples were immediately divided into two fragments, and one of them was fixed with 10% formaldehyde, while the other was frozen in liquid nitrogen for RNA extraction and subsequent expression analysis by DNA microarrays.

Control samples included non-pathological lung specimens obtained from trauma victims.

RNA extraction and DNA microarray hybridization.

RNA was extracted from the frozen lung tissue using TRIzol reagent and protocols (Invitrogen, Carlsbad, CA). The resulting total RNA was converted into biotinylated cRNA using standard protocols using the Superscript Choice system for cDNA generation (Invitrogen, Carlsbad, CA) and the T7 MegaScript system (Ambion, Austin, TX) for labeled cRNA generation. The labeled cRNA was hybridized to a custom Affymetrix oligonucleotide DNA microarray using standard Affymetrix

protocols. The custom array, Hu03 contains 59,619 probesets representing an estimated 46,000 gene clusters. The generation of the gene expression data was performed as described (E5).

Statistical methods

The general approach to analysis, as we have outlined (E6, E7) was performed using the ScoreGenes software tools (<http://compbio.cs.huji.ac.il/scoregenes/>). To identify differentiating genes we used two statistical scoring methods: classic parametric t test, and the nonparametric threshold number of misclassifications (TNoM) method (E8). Analysis was performed between all relevant groups (UIP, HP, NSIP) for each gene of the data set. Overabundance analysis was performed to examine the number of genes at different p values and compare them with the expected number under the null hypothesis that the separation of the samples is random (E6). To correct for multiple testing, we applied the False Discovery Rate (FDR) method that ranks and tests all p values against different thresholds or the stringent Bonferroni correction (E9).

Cross validation

To further assess the predictive power of the data sets, we evaluated the accuracy of the Bayesian classifier by using the Leave-One-Out-Cross-Validation (LOOCV) statistical method (E8). The method simulates removal of a single sample every trial and trains on the rest. The procedure is repeated until each sample is left out once and the number of correct and incorrect predictions is counted. To estimate how the predictive power depends on the number of genes in the signature, we repeat this test at different p value thresholds. For each p value, a classification score was calculated for every sample (the sum of all the likelihood ratios of all the genes per a given sample) in a specific class.

Functional annotations

Enrichment of functional annotations was performed using NIH DAVID and EASE online (<http://apps1.niaid.nih.gov/david/>) (E10, E11). Briefly, an annotated list of the genes increased in HP compared to IPF and the genes increased in IPF compared to HP was created. Statistical significance of the annotation was determined using fisher exact score and EASE score (E10).

Bronchoalveolar lavage (BAL)

BAL was performed as previously described using flexible fiberoptic bronchoscopy under local anesthesia (E1). Three hundred ml of normal saline were instilled in 50-ml aliquots, with an average recovery of 60-70%. Total proteins were measured using Bio-Rad Protein Assay (Bio-Rad Lab., Inc., Hercules, CA). IGFBP-4 was measured by ELISA in 10 fold concentrated BAL fluids following the instructions of the manufacturer (Diagnostic Systems Laboratories, Inc., Webster TX). Results are expressed in µg IGFBP-4 per mg of protein. The cell pellet was resuspended in 1 ml phosphate buffer saline and an aliquot was used to evaluate the total number of cells. Some cell aliquots were used for FACS analyses. Other aliquots were fixed and two slides per sample were stained with hematoxylin & eosin and used for differential cell counts.

Immunohistochemistry

Tissue sections were deparaffinized, rehydrated and then blocked with 3% H₂O₂ in methanol for 30 minutes followed by antigen retrieval performed with citrate buffer 10 mM pH 6.0 for 5 minutes in a microwave (E1). Tissue sections were then incubated with an antibody diluent with background reducing components (Dako, Carpinteria, CA) diluted 1/100 in PBS for 45 minutes. Human anti-insulin-like growth factor-binding protein 4 (IGFBP-4) and N-cadherin polyclonal antibodies (Santa Cruz Biotech, CA) and human MMP-1 monoclonal antibody (Oncogene, San Diego, CA) were applied

and incubated at 4°C overnight. A secondary biotinylated anti-immunoglobulin followed by horseradish peroxidase-conjugated streptavidin (BioGenex, San Ramon CA) was used according to the manufacturer's instructions. 3-amino-9-ethyl-carbazole (AEC, BioGenex) in acetate buffer containing 0.05% H₂O₂ was used as substrate. The sections were counterstained with hematoxylin. The primary antibody was replaced by non-immune serum for negative control slides.

Flow cytometric analyses of surface CD3, CD4, CD8 and CD69 on BAL lymphocytes.

BAL cells (1 x 10⁶) were resuspended in 50 µl of staining buffer (PBS containing 1% bovine serum albumin and 0.1% sodium azide). Tubes with different monoclonal antibodies [FITC-conjugated anti-CD3, phycoerythrin (PE)-conjugated anti-CD4, PerCp-antiCD8, and FITC-antiCD69 (Becton Dickinson, San Jose, CA)] were incubated for 30 min at 4°C. Mouse IgG antibodies of the same isotype and concentration were used to determine non-specific binding of antibodies. After two washes, all cells were fixed in 1% paraformaldehyde. Flow cytometric analyses of cell surface markers were performed using a FACScan (Becton Dickinson) and analyzed with CellQuest software (Becton Dickinson).

References

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Supplemental Table E1
Upregulated genes in IPF

| Gene name | Locus Link Number | TNOM PValue | t-Test PValue |
|---|-------------------|-------------|---------------|
| NM_018045: hypothetical protein FLJ10276 (FLJ10276), mRNA. | 55108 | 3.1063E-06 | 1.8536E-09 |
| AL133035*: mRNA; cDNA DKFZp434G171 (from clone DKFZp434G171). | 54751 | 3.1063E-06 | 5.4489E-06 |
| NM_052816: tripartite motif-containing 31 (TRIM31), transcript variant 2, mRNA. | 11074 | 4.0382E-05 | 3.0932E-08 |
| NM_145253: LOC124402 (LOC124402), mRNA. (Intron of known gene) NM_001913*: cut-like 1, CCAAT displacement protein (Drosophila) (CUTL1), transcript variant 2, mRNA. | 124402 | 4.0382E-05 | 5.4959E-08 |
| Hs.318773: KIAA1836 protein (Intron of known gene) NM_130771*: osteoclast-associated receptor (OSCAR), transcript variant 1, mRNA. | 1523 | 4.0382E-05 | 5.6237E-07 |
| 200014 | 4.0382E-05 | 1.2063E-06 | |
| NM_016056: CGI-119 protein (CGI-119), mRNA. | 51643 | 4.0382E-05 | 1.4908E-05 |
| NM_002191: inhibin, alpha (INHA), mRNA. | 3623 | 4.0382E-05 | 4.3723E-05 |
| BC040253 | 5317 | 4.0382E-05 | 9.0717E-05 |
| NM_175615*: aspecific BCL2 ARE-binding protein 2 (ASBAP2), mRNA. | 5069 | 4.0382E-05 | 0.00015019 |
| NM_017680: asporin (LRR class 1) (ASPN), mRNA. | 54829 | 4.0382E-05 | 0.00028842 |
| Hs.441044: EGF-like repeats and discoidin I-like domains 3 | 10085 | 4.0382E-05 | 0.00037003 |
| NM_032013: NDRG family member 3 (NDRG3), transcript variant 1, mRNA. | 57446 | 4.0382E-05 | 0.00042802 |
| NM_199346: hypothetical protein LOC375189 (LOC375189), mRNA. (Intron of known gene) AK091396 | 375189 | 4.0382E-05 | 0.00106039 |
| NM_007281: scrapie responsive protein 1 (SCRG1), mRNA. | 953 | 4.0382E-05 | 0.00122435 |
| Hs.138453: chromosome Y open reading frame 14 | 11341 | 4.0382E-05 | 0.00272145 |
| NM_000306: POU domain, class 1, transcription factor 1 (Pit1, growth hormone factor 1) (POU1F1), mRNA. | 55410 | 0.00033652 | 7.114E-07 |
| NM_003361: uromodulin (uromucoid, Tamm-Horsfall glycoprotein) (UMOD), mRNA. (Opposite strand of gene) NM_005074: solute carrier family 17 (sodium phosphate), member 1 (SLC17A1), mRNA. | 5449 | 0.00033652 | 8.8483E-07 |
| NM_032803: solute carrier family 7 (cationic amino acid transporter, y system), member 3 (SLC7A3), mRNA. | 7369 | 0.00033652 | 9.5785E-07 |
| NM_002849: protein tyrosine phosphatase, receptor type, R (PTPRR), transcript variant 1, mRNA. | 6568 | 0.00033652 | 1.029E-06 |
| NM_002849: protein tyrosine phosphatase, receptor type, R (PTPRR), transcript variant 1, mRNA. | 84889 | 0.00033652 | 1.3413E-06 |
| NM_145111: hypothetical protein DKFZp727G131 (DKFZp727G131), mRNA. | 5801 | 0.00033652 | 2.3563E-06 |
| NM_000306: POU domain, class 1, transcription factor 1 (Pit1, growth hormone factor 1) (POU1F1), mRNA. | 221786 | 0.00033652 | 2.5239E-06 |
| NM_033285: tumor protein p53 inducible nuclear protein 1 (TP53INP1), mRNA. | 94241 | 0.00033652 | 2.5438E-06 |
| NM_000029: angiotensinogen (serine (or cysteine) proteinase (AGT), mRNA. | 183 | 0.00033652 | 3.6249E-06 |
| AJ314646*: partial mRNA for hypothetical protein and STS WI-9521. | 84440 | 0.00033652 | 4.0727E-06 |
| NM_017881: hypothetical protein FLJ20559 (FLJ20559), mRNA. | 54981 | 0.00033652 | 5.6167E-06 |
| NM_017704: fetal globin-inducing factor (FGIF), mRNA. | 54851 | 0.00033652 | 5.8134E-06 |
| Hs.242537: phosphoinositol 3-phosphate-binding protein-2 | 54477 | 0.00033652 | 6.5165E-06 |
| NM_032875: F-box protein FBL2 (MGC15482), mRNA. (Intron of known gene) BC020262 | 84961 | 0.00033652 | 6.5861E-06 |
| ENSP00000258738*: none_available | 284325 | 0.00033652 | 8.0802E-06 |
| Hs.197687: hypothetical protein FLJ90492 | 340273 | 0.00033652 | 9.5284E-06 |
| NM_000861: histamine receptor H1 (HRH1), mRNA. | 160418 | 0.00033652 | 1.306E-05 |
| NM_001069*: tubulin, beta polypeptide (TUBB), mRNA. | 3269 | 0.00033652 | 1.6201E-05 |
| NM_032281: hypothetical protein DKFZp547J036 (DKFZp547J036), mRNA. | 7280 | 0.00033652 | 2.8397E-05 |
| NM_030579: cytochrome b5 outer mitochondrial membrane precursor (CYB5-M), mRNA. (Intron of known gene) NM_000582*: secreted phosphoprotein 1 (osteopontin, bone sialoprotein I, early T-lymphocyte activation 1) (SPP1), mRNA. | 84241 | 0.00033652 | 3.2581E-05 |
| 6696 | 0.00033652 | 4.9869E-05 | |
| 80777 | 0.00033652 | 6.2313E-05 | |

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|---|------------|------------|------------|
| NM_003338: ubiquitin-conjugating enzyme E2D 1 (UBC4/5 homolog, yeast) (UBE2D1), mRNA. | 7321 | 0.00033652 | 7.7582E-05 |
| NM_175734*: hypothetical protein LOC201243 (LOC201243), mRNA. | 201243 | 0.00033652 | 0.00010611 |
| NM_000693: aldehyde dehydrogenase 1 family, member A3 (ALDH1A3), mRNA. | 220 | 0.00033652 | 0.00011953 |
| BC026910 | 158062 | 0.00033652 | 0.00012132 |
| NM_020443: neuron navigator 1 (NAV1), mRNA. | 89796 | 0.00033652 | 0.00017937 |
| Hs.31386: secreted frizzled-related protein 2 | 6423 | 0.00033652 | 0.00020623 |
| NM_014839: plasticity related gene 1 (PRG1), mRNA. | 9890 | 0.00033652 | 0.00022929 |
| NM_001792: cadherin 2, type 1, N-cadherin (neuronal) (CDH2), mRNA. | 1000 | 0.00033652 | 0.00026976 |
| NM_005214: cytotoxic T-lymphocyte-associated protein 4 (CTLA4), mRNA. | 1493 | 0.00033652 | 0.00039581 |
| NM_000334: sodium channel, voltage-gated, type IV, alpha (SCN4A), mRNA. | 6329 | 0.00033652 | 0.00042097 |
| NM_000550: tyrosinase-related protein 1 (TYRP1), mRNA. | 7306 | 0.00033652 | 0.00053556 |
| NM_006434: sorbin and SH3 domain containing 1 (SORBS1), mRNA. | 22833 | 0.00033652 | 0.00061527 |
| BC040983 | 5099 | 0.00033652 | 0.00093634 |
| NM_024076: potassium channel tetramerisation domain containing 15 (KCTD15), mRNA. | 79047 | 0.00033652 | 0.00124868 |
| Hs.135163: solute carrier family 11 (proton-coupled divalent metal ion transporters), member 1 | 6556 | 0.00033652 | 0.00133493 |
| NM_000577: interleukin 1 receptor antagonist (IL1RN), transcript variant 3, mRNA. | 3557 | 0.00033652 | 0.00194308 |
| NM_03326: SRY (sex determining region Y)-box 6 (SOX6), mRNA. | 55553 | 0.00033652 | 0.0019824 |
| Hs.43149: ring finger protein 150 | 57484 | 0.00033652 | 0.00214859 |
| NM_004425: extracellular matrix protein 1 (ECM1), transcript variant 1, mRNA. (Opposite strand of gene) NM_152994: smooth muscle myosin heavy chain 11 isoform SM1-like (LOC129285), mRNA. | 1893 | 0.00033652 | 0.00223442 |
| 129285 | 0.00033652 | 0.00251499 | |
| NM_001847: collagen, type IV, alpha 6 (COL4A6), transcript variant A, mRNA. | 1288 | 0.00033652 | 0.00342796 |
| NM_006475: osteoblast specific factor 2 (fasciclin I-like) (OSF-2), mRNA. | 10631 | 0.00033652 | 0.00359433 |
| NM_175892: hypothetical protein FLJ37266 (FLJ37266), mRNA. | 283225 | 0.00033652 | 0.0044804 |
| NM_130445: collagen, type XVIII, alpha 1 (COL18A1), transcript variant 2, mRNA. | 80781 | 0.00033652 | 0.00457581 |
| NM_002423: matrix metalloproteinase 7 (matrilysin, uterine) (MMP7), mRNA. | 4316 | 0.00033652 | 0.00486756 |
| NM_000078: cholesteryl ester transfer protein, plasma (CETP), mRNA. | 1071 | 0.00033652 | 0.0078242 |
| NM_030919: chromosome 20 open reading frame 129 (C20orf129), mRNA. | 81610 | 0.00033652 | 0.00874356 |
| NM_130386: collectin sub-family member 12 (COLEC12), transcript variant I, mRNA. | 81035 | 0.00033652 | 0.00938126 |
| NM_002991: chemokine (C-C motif) ligand 24 (CCL24), mRNA. | 6369 | 0.00033652 | 0.0099309 |
| Hs.400348: rhomboid, veinlet-like 4 (Drosophila) | 162494 | 0.00201911 | 9.9008E-06 |
| NM_000460: thrombopoietin (myeloproliferative leukemia virus (THPO), transcript variant 1, mRNA. | 7066 | 0.00201911 | 1.1955E-05 |
| NM_000046: arylsulfatase B (ARSB), transcript variant 1, mRNA. | 411 | 0.00201911 | 2.2262E-05 |
| NM_000582: secreted phosphoprotein 1 (osteopontin, bone sialoprotein I, early T-lymphocyte activation 1) (SP1), mRNA. | 6696 | 0.00201911 | 2.6178E-05 |
| NM_002829: protein tyrosine phosphatase, non-receptor type 3 (PTPN3), mRNA. | 5774 | 0.00201911 | 3.4674E-05 |
| NM_014228: solute carrier family 6 (neurotransmitter transporter, L-proline), member 7 (SLC6A7), mRNA. | 6534 | 0.00201911 | 5.2138E-05 |
| NM_001713: betaine-homocysteine methyltransferase (BHMT), mRNA. | 635 | 0.00201911 | 5.3661E-05 |
| NM_014677: regulating synaptic membrane exocytosis 2 (RIMS2), mRNA. | 9699 | 0.00201911 | 5.6916E-05 |
| NM_198531: ATPase, Class II, type 9B (ATP9B), mRNA. | 374868 | 0.00201911 | 5.9239E-05 |
| NM_005909: microtubule-associated protein 1B (MAP1B), transcript variant 1, mRNA. | 4131 | 0.00201911 | 6.7664E-05 |
| Hs.156369: tenascin N | 63923 | 0.00201911 | 7.8339E-05 |
| NM_022764: hypothetical protein FLJ12998 (FLJ12998), mRNA. | 64779 | 0.00201911 | 8.053E-05 |
| NM_005268: gap junction protein, beta 5 (connexin 31.1) (GJB5), mRNA. | 2709 | 0.00201911 | 8.237E-05 |
| NM_033160: DKFZP572C163 protein (DKFZP572C163), mRNA. | 26149 | 0.00201911 | 8.5595E-05 |
| NM_000494: collagen, type XVII, alpha 1 (COL17A1), transcript variant long, mRNA. | 1308 | 0.00201911 | 8.792E-05 |
| NM_014069: psoriasis susceptibility 1 candidate 2 (PSORS1C2), mRNA. (Intron of known gene) ENSP00000162863*: HPMSR6. [Source:SPTRREMBL;Acc:Q13670] (Opposite strand of gene) ENSP00000271802: Potential phospholipid-transporting ATPase ID (EC 3.6.3.1) (ATPase class I type 8B member 2). [Source:SWISSPROT;Acc:P98198] | 170680 | 0.00201911 | 9.4593E-05 |
| 5387 | 0.00201911 | 0.0001047 | |
| 57198 | 0.00201911 | 0.00011087 | |
| NM_014286: frequenin homolog (Drosophila) (FREQ), mRNA. | 23413 | 0.00201911 | 0.00011454 |

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|--|--|--------|------------|------------|
| AK095233 | | 283219 | 0.00201911 | 0.00011628 |
| NM_031305: hypothetical protein DKFZp564B1162 (DKFZP564B1162), mRNA. | | 83478 | 0.00201911 | 0.00012081 |
| NM_032888*: collagen, type XXVII, alpha 1 (COL27A1), mRNA. | | 85301 | 0.00201911 | 0.00012678 |
| Hs.9914: follistatin | | 10468 | 0.00201911 | 0.0001307 |
| NM_001961: eukaryotic translation elongation factor 2 (EEF2), mRNA. | | 1938 | 0.00201911 | 0.00013934 |
| NM_022097: hepatocellular carcinoma antigen gene 520 (LOC63928), mRNA. | | 63928 | 0.00201911 | 0.00014831 |
| NM_004463: faciogenital dysplasia (Aarskog-Scott syndrome) (FGD1), mRNA. (Intron of known gene) AK026993*: cDNA: FLJ23340 fis, clone HEP13465, highly similar to HUMRANBP2 Human mRNA for RanBP2. | | 2245 | 0.00201911 | 0.00016266 |
| | | 5903 | 0.00201911 | 0.0001768 |
| NM_144709: hypothetical protein FLJ32312 (FLJ32312), mRNA. | | 150962 | 0.00201911 | 0.00018014 |
| NM_006781: chromosome 6 open reading frame 10 (C6orf10), mRNA. | | 10665 | 0.00201911 | 0.00018352 |
| NM_004239: thyroid hormone receptor interactor 11 (TRIP11), mRNA. | | 9321 | 0.00201911 | 0.00019865 |
| Hs.159460: hypothetical protein FLJ11753 | | 79712 | 0.00201911 | 0.0002033 |
| NM_001723: bullous pemphigoid antigen 1, 230/240kDa (BPAG1), transcript variant 1e, mRNA. | | 667 | 0.00201911 | 0.00020654 |
| NM_006142: stratifin (SFN), mRNA. | | 2810 | 0.00201911 | 0.00030087 |
| Hs.525875: hypothetical protein LOC284701 | | 284701 | 0.00201911 | 0.0003099 |
| NM_144564: solute carrier family 39 (zinc transporter), member 3 (SLC39A3), mRNA. | | 29985 | 0.00201911 | 0.0003554 |
| NM_022003: FXYD domain containing ion transport regulator 6 (FXYD6), mRNA. | | 53826 | 0.00201911 | 0.00036763 |
| Hs.380417: hypothetical protein MGC23166 | | 221504 | 0.00201911 | 0.00037937 |
| NM_006512: serum amyloid A4, constitutive (SAA4), mRNA. | | 6291 | 0.00201911 | 0.00038185 |
| NM_152999: six transmembrane epithelial antigen of prostate 2 (STEAP2), mRNA. | | 261729 | 0.00201911 | 0.00039041 |
| NM_007173: protease, serine, 23 (SPUVE), mRNA. | | 11098 | 0.00201911 | 0.00040237 |
| Hs.306692: epithelial membrane protein 1 | | 2012 | 0.00201911 | 0.00042533 |
| NM_004440: EphA7 (EPHA7), mRNA. | | 2045 | 0.00201911 | 0.00043329 |
| NM_198553: FLJ30851 protein (FLJ30851), mRNA. | | 375190 | 0.00201911 | 0.00044471 |
| NM_014799: hephaestin (HEPH), transcript variant 2, mRNA. | | 9843 | 0.00201911 | 0.00051385 |
| NM_023003: transmembrane 6 superfamily member 1 (TM6SF1), mRNA. | | 53346 | 0.00201911 | 0.00052455 |
| Hs.371255: ubiquitin specific protease 9, Y-linked (fat facets-like, Drosophila) | | 8287 | 0.00201911 | 0.00058379 |
| Hs.512555: collagen, type XIV, alpha 1 (undulin) | | 7373 | 0.00201911 | 0.00058874 |
| Hs.129129: testis derived transcript (3 LIM domains) | | 26136 | 0.00201911 | 0.0006395 |
| Hs.288932: likely ortholog of mouse Mak3p homolog (S. cerevisiae) | | 80218 | 0.00201911 | 0.00064008 |
| Hs.398100: mucin 6, gastric | | 4588 | 0.00201911 | 0.00087085 |
| NM_003289: tropomyosin 2 (beta) (TPM2), mRNA. | | 7169 | 0.00201911 | 0.00090799 |
| NM_002546: tumor necrosis factor receptor superfamily, member 11b (osteoprotegerin) (TNFRSF11B), mRNA. | | 4982 | 0.00201911 | 0.00106604 |
| NM_005786: serologically defined colon cancer antigen 33 (SDCCAG33), mRNA. | | 10194 | 0.00201911 | 0.00134524 |
| NM_032452: junctophilin like 1 (JPHL1), mRNA. | | 8906 | 0.00201911 | 0.00147839 |
| NM_002785: pregnancy specific beta-1-glycoprotein 11 (PSG11), mRNA. | | 5680 | 0.00201911 | 0.00148639 |
| NM_002775: protease, serine, 11 (IGF binding) (PRSS11), mRNA. | | 5654 | 0.00201911 | 0.00152529 |
| Hs.9587: KIAA2002 protein | | 79834 | 0.00201911 | 0.00156472 |
| NM_024728: chromosome 7 open reading frame 10 (C7orf10), mRNA. | | 79783 | 0.00201911 | 0.00162973 |
| (Intron of known gene) NM_002629*: phosphoglycerate mutase 1 (brain) (PGAM1), mRNA. | | 5223 | 0.00201911 | 0.00165951 |
| NM_139169: TruB pseudouridine (psi) synthase homolog 1 (E. coli) (TRUB1), mRNA. | | 142940 | 0.00201911 | 0.00169462 |
| NM_002421: matrix metalloproteinase 1 (interstitial collagenase) (MMP1), mRNA. | | 4312 | 0.00201911 | 0.00180712 |
| NM_145167: phosphatidylinositol glycan, class M (PIGM), mRNA. | | 93183 | 0.00201911 | 0.00182006 |
| NM_014476: alpha-actinin-2-associated LIM protein (ALP), mRNA. | | 27295 | 0.00201911 | 0.00185632 |
| Hs.406505: DNA directed RNA polymerase II polypeptide J-related gene | | 246721 | 0.00201911 | 0.00189833 |
| NM_015170: sulfatase 1 (SULF1), mRNA. | | 23213 | 0.00201911 | 0.00199457 |
| (Intron of known gene) NM_014325*: coronin, actin binding protein, 1C (CORO1C), mRNA. | | 23603 | 0.00201911 | 0.00217475 |
| (Intron of known gene) NM_033332*: CDC14 cell division cycle 14 homolog B (S. cerevisiae) (CDC14B), transcript variant 3, mRNA. | | 8555 | 0.00201911 | 0.00224021 |
| NM_153756: fibronectin type III domain containing 5 (FNDC5), mRNA. | | 252995 | 0.00201911 | 0.00225902 |

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| Hs.501571: spectrin, beta, non-erythrocytic 5 | 51332 | 0.00201911 | 0.00268032 |
| NM_004385*: chondroitin sulfate proteoglycan 2 (versican) (CSPG2), mRNA. | 1462 | 0.00201911 | 0.00284683 |
| NM_001552: insulin-like growth factor binding protein 4 (IGFBP4), mRNA. | 3487 | 0.00201911 | 0.003664 |
| NM_020041: solute carrier family 2 (facilitated glucose transporter), member 9 (SLC2A9), mRNA. | 56606 | 0.00201911 | 0.00374705 |
| NM_016429: coatomer protein complex, subunit zeta 2 (COPZ2), mRNA. | 51226 | 0.00201911 | 0.0041267 |
| NM_014067: LRP16 protein (LRP16), mRNA. | 28992 | 0.00201911 | 0.00419546 |
| Hs.413843: S100 calcium binding protein A2 | 6273 | 0.00201911 | 0.00453649 |
| Hs.443625: collagen, type III, alpha 1 (Ehlers-Danlos syndrome type IV, autosomal dominant) | 1281 | 0.00201911 | 0.00486324 |
| NM_004403: deafness, autosomal dominant 5 (DFNA5), mRNA. | 1687 | 0.00201911 | 0.00510673 |
| NM_001299: calponin 1, basic, smooth muscle (CNN1), mRNA. | 1264 | 0.00201911 | 0.00521214 |
| NM_003722: tumor protein p73-like (TP73L), mRNA. | 8626 | 0.00201911 | 0.00592142 |
| NM_000599: insulin-like growth factor binding protein 5 (IGFBP5), mRNA. | 3488 | 0.00201911 | 0.00619535 |
| Hs.285091: chromosome 18 open reading frame 1 | 753 | 0.00201911 | 0.00699114 |
| NM_012310*: kinesin family member 4A (KIF4A), mRNA. | 24137 | 0.00201911 | 0.00728813 |
| NM_001855: collagen, type XV, alpha 1 (COL15A1), mRNA. | 1306 | 0.00201911 | 0.00778896 |
| NM_006741: protein phosphatase 1, regulatory (inhibitor) subunit 1A (PPP1R1A), mRNA. | 5502 | 0.00201911 | 0.00815182 |
| NM_000793: deiodinase, iodothyronine, type II (DIO2), transcript variant 2, mRNA. | 1734 | 0.00201911 | 0.00822832 |
| NM_004363: carcinoembryonic antigen-related cell adhesion molecule 5 (CEACAM5), mRNA. | 1048 | 0.00201911 | 0.00834501 |
| Hs.390428: mitogen-activated protein kinase kinase 4 | 4216 | 0.00201911 | 0.0086377 |
| NM_001703: brain-specific angiogenesis inhibitor 2 (BAI2), mRNA. | 576 | 0.00201911 | 0.00870197 |
| NM_032297: hypothetical protein DKFZp761D112 (DKFZp761D112), mRNA. | 84257 | 0.00201911 | 0.00882729 |
| NM_021738: supervillin (SVIL), transcript variant 2, mRNA. | 6840 | 0.00201911 | 0.00898469 |
| NM_032623: ovary-specific acidic protein (OSAP), mRNA. | 84709 | 0.00201911 | 0.00927924 |
| NM_014042: DKFZP564M082 protein (DKFZP564M082), mRNA. | 25906 | 0.00201911 | 0.00954629 |
| NM_014953: mitotic control protein dis3 homolog (DIS3), mRNA. | 79866 | 0.00928793 | 9.09E-05 |
| NM_005313: glucose regulated protein, 58kDa (GRP58), mRNA. | 2923 | 0.00928793 | 0.00011737 |
| NM_024865: Nanog homeobox (NANOG), mRNA. | 79923 | 0.00928793 | 0.00012347 |
| NM_000834: glutamate receptor, ionotropic, N-methyl D-aspartate 2B (GRIN2B), mRNA. (Opposite strand of gene) NM_000949: prolactin receptor (PRLR), mRNA. | 2904 | 0.00928793 | 0.0001443 |
| NM_152599: hypothetical protein FLJ35773 (FLJ35773), mRNA. | 5618 | 0.00928793 | 0.00016838 |
| NM_005855: receptor (calcitonin) activity modifying protein 1 (RAMP1), mRNA. | 162387 | 0.00928793 | 0.00017841 |
| NM_024814: Cas-Br-M (murine) ecotropic retroviral transforming sequence-like 1 (CBLL1), mRNA. | 10267 | 0.00928793 | 0.00018798 |
| NM_002716: protein phosphatase 2 (formerly 2A), regulatory mRNA. | 79872 | 0.00928793 | 0.00019127 |
| Hs.171857: chromosome Y open reading frame 15A | 5519 | 0.00928793 | 0.00019693 |
| Hs.103042: microtubule-associated protein 1B | 246126 | 0.00928793 | 0.00022754 |
| NM_020990: creatine kinase, mitochondrial 1 (ubiquitous) (CKMT1), nuclear gene encoding mitochondrial protein, mRNA. | 4131 | 0.00928793 | 0.00022834 |
| NM_004821: heart and neural crest derivatives expressed 1 (HAND1), mRNA. (Intron of known gene) NM_004537*: nucleosome assembly protein 1-like 1 (NAP1L1), transcript variant 2, mRNA. | 1159 | 0.00928793 | 0.00023665 |
| NM_004229: cofactor required for Sp1 transcriptional activation, subunit 2, 150kDa (CRSP2), mRNA. | 9421 | 0.00928793 | 0.0002453 |
| NM_005998: chaperonin containing TCP1, subunit 3 (gamma) (CCT3), mRNA. (Opposite strand of gene) NM_139246: PP4189 (LOC158427), mRNA. | 4673 | 0.00928793 | 0.00026322 |
| Hs.107101: hypothetical protein FLJ31031 | 7203 | 0.00928793 | 0.00027315 |
| NM_006919: serine (or cysteine) proteinase inhibitor, clade B (ovalbumin), member 3 (SERPINB3), mRNA. | 158427 | 0.00928793 | 0.0002802 |
| NM_005950: metallothionein 1G (MT1G), mRNA. | 199990 | 0.00928793 | 0.00029741 |
| Hs.449971: zinc finger protein 134 (clone pHZ-15) | 6317 | 0.00928793 | 0.00030803 |
| NM_144695: hypothetical protein FLJ32421 (FLJ32421), mRNA. | 7693 | 0.00928793 | 0.00031108 |
| NM_053275: ribosomal protein, large, P0 (RPLP0), transcript variant 2, mRNA. | 148362 | 0.00928793 | 0.00032963 |
| Hs.102647: hypothetical protein LOC220213 | 6175 | 0.00928793 | 0.0003587 |
| | 220213 | 0.00928793 | 0.0003893 |

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| (Opposite strand of gene) NM_001207: basic transcription factor 3 (BTF3), mRNA. | 689 | 0.00928793 | 0.00039949 |
| NM_031283: transcription factor 7-like 1 (T-cell specific, HMG-box) (TCF7L1), mRNA. | 83439 | 0.00928793 | 0.00040518 |
| NM_001859: solute carrier family 31 (copper transporters), member 1 (SLC31A1), mRNA. | 1317 | 0.00928793 | 0.00041518 |
| (Opposite strand of gene) NM_152309: phosphoinositide-3-kinase adaptor protein 1 (PIK3AP1), mRNA. | 118788 | 0.00928793 | 0.00041728 |
| Hs.169849: myosin binding protein C, slow type | 4604 | 0.00928793 | 0.00042598 |
| BC040191 | 339665 | 0.00928793 | 0.00042757 |
| NM_003882: WNT1 inducible signaling pathway protein 1 (WISP1), transcript variant 1, mRNA. | 8840 | 0.00928793 | 0.0004304 |
| NM_152550: hypothetical protein FLJ23654 (FLJ23654), mRNA. | 153769 | 0.00928793 | 0.00044407 |
| NM_003923: forkhead box H1 (FOXH1), mRNA. | 8928 | 0.00928793 | 0.00045341 |
| Hs.172028: a disintegrin and metalloproteinase domain 10 | 102 | 0.00928793 | 0.00046155 |
| ENSP00000255992*: none_available | 84626 | 0.00928793 | 0.00047043 |
| NM_000427: loricrin (LOR), mRNA. | 4014 | 0.00928793 | 0.00047156 |
| NM_004651: ubiquitin specific protease 11 (USP11), mRNA. | 8237 | 0.00928793 | 0.00047292 |
| (Intron of known gene) AK074065* | 57690 | 0.00928793 | 0.00047845 |
| NM_015316: protein phosphatase 1, regulatory (inhibitor) subunit 13B (PPP1R13B), mRNA. | 23368 | 0.00928793 | 0.00048727 |
| NM_032321: hypothetical protein MGC13057 (MGC13057), mRNA. | 84281 | 0.00928793 | 0.00049387 |
| NM_030817: hypothetical protein DKFZp434F0318 (DKFZP434F0318), mRNA. | 81575 | 0.00928793 | 0.00051528 |
| NM_003899: Rho guanine nucleotide exchange factor (GEF) 7 (ARHGEF7), transcript variant 1, mRNA. | 8874 | 0.00928793 | 0.00053483 |
| NM_152710*: hypothetical protein FLJ32820 (FLJ32820), mRNA. | 219793 | 0.00928793 | 0.00055309 |
| BC037803* | 4747 | 0.00928793 | 0.00055372 |
| NM_033183: chorionic gonadotropin, beta polypeptide 8 (CGB8), mRNA. | 93659 | 0.00928793 | 0.00057341 |
| NM_004431: EphA2 (EPHA2), mRNA. | 1969 | 0.00928793 | 0.00058035 |
| Hs.13254: FLJ00204 protein | 344558 | 0.00928793 | 0.00058431 |
| NM_175061: juxtaposed with another zinc finger gene 1 (JAZF1), mRNA. | 221895 | 0.00928793 | 0.00059661 |
| NM_000617: solute carrier family 11 (proton-coupled divalent metal ion transporters), member 2 (SLC11A2), mRNA. | 4891 | 0.00928793 | 0.00060656 |
| Hs.292754: cyclin T2 | 905 | 0.00928793 | 0.00060945 |
| NM_152680: hypothetical protein FLJ32028 (FLJ32028), mRNA. | 201799 | 0.00928793 | 0.00061007 |
| NM_020841: oxysterol binding protein-like 8 (OSBPL8), mRNA. | 114882 | 0.00928793 | 0.00061725 |
| NM_052968: apolipoprotein A-V (APOA5), mRNA. | 116519 | 0.00928793 | 0.00062084 |
| Hs.172108: nucleoporin 88kDa | 4927 | 0.00928793 | 0.00062496 |
| (Intron of known gene) NM_003812*: a disintegrin and metalloproteinase domain 23 (ADAM23), mRNA. | 8745 | 0.00928793 | 0.00062511 |
| NM_153824: pyrroline-5-carboxylate reductase 1 (PYCR1), transcript variant 2, mRNA. | 5831 | 0.00928793 | 0.00071057 |
| NM_007359: MLN51 protein (MLN51), mRNA. | 22794 | 0.00928793 | 0.00074192 |
| NM_144586: hypothetical protein MGC29643 (MGC29643), mRNA. | 116372 | 0.00928793 | 0.0007524 |
| Hs.406631: cell division cycle 27 | 996 | 0.00928793 | 0.00076238 |
| NM_173485: chromosome 20 open reading frame 17 (C20orf17), mRNA. | 128553 | 0.00928793 | 0.00076758 |
| NM_015000: serine/threonine kinase 38 like (STK38L), mRNA. | 23012 | 0.00928793 | 0.00081695 |
| NM_007068: DMC1 dosage suppressor of mck1 homolog, meiosis-specific homologous recombination (yeast) (DMC1), mRNA. | 11144 | 0.00928793 | 0.0008228 |
| NM_001806: CCAAT/enhancer binding protein (C/EBP), gamma (CEBPG), mRNA. | 1054 | 0.00928793 | 0.00084218 |
| NM_014415: zinc finger protein (ZNF-U69274), mRNA. | 27107 | 0.00928793 | 0.00085133 |
| NM_002564: purinergic receptor P2Y, G-protein coupled, 2 (P2RY2), transcript variant 2, mRNA. | 5029 | 0.00928793 | 0.00086027 |
| NM_004642*: CDK2-associated protein 1 (CDK2AP1), mRNA. | 8099 | 0.00928793 | 0.00088658 |
| (Opposite strand of gene) NM_018186: hypothetical protein FLJ10706 (FLJ10706), mRNA. | 55732 | 0.00928793 | 0.0009063 |
| NM_014603: paraneoplastic antigen (HUMPPA), mRNA. | 30850 | 0.00928793 | 0.00094695 |
| NM_024657: zinc finger, CW-type with coiled-coil domain 2 (ZCWCC2), mRNA. | 79710 | 0.00928793 | 0.00095174 |
| NM_015650: microtubule-interacting protein that associates with TRAF3 (MIP-T3), mRNA. | 26146 | 0.00928793 | 0.00095232 |
| NM_152672: organic solute transporter alpha (OSTalpha), mRNA. | 200931 | 0.00928793 | 0.00097033 |
| Hs.282230: WD repeat and FYVE domain containing 2 | 115825 | 0.00928793 | 0.00099072 |

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| Hs.497208: DBCCR1-like | | 339479 | 0.00928793 | 0.00102507 |
| NM_182691: SFRS protein kinase 2 (SRPK2), transcript variant 2, mRNA. | | 6733 | 0.00928793 | 0.00104825 |
| Hs.58324: a disintegrin-like and metalloprotease (reprolysin type) with thrombospondin type 1 motif, 5 (aggrecanase-2) | | 11096 | 0.00928793 | 0.00105437 |
| (Intron of known gene) NM_025137*: hypothetical protein FLJ21439 (FLJ21439), mRNA. | | 80208 | 0.00928793 | 0.00109201 |
| NM_152281: hypothetical protein FLJ11752 (FLJ11752), mRNA. | | 92344 | 0.00928793 | 0.00109772 |
| AK027019: cDNA: FLJ23366 fis, clone HEP15665. | | 90874 | 0.00928793 | 0.00113326 |
| NM_021980: optineurin (OPTN), mRNA. | | 83643 | 0.00928793 | 0.00113692 |
| NM_024828: hypothetical protein FLJ13657 (FLJ13657), mRNA. | | 79886 | 0.00928793 | 0.00118114 |
| (Intron of known gene) NM_004457*: fatty-acid-Coenzyme A ligase, long-chain 3 (FACL3), mRNA. | | 2181 | 0.00928793 | 0.00118579 |
| NM_000533: proteolipid protein 1 (Pelizaeus-Merzbacher disease, mRNA. | | 5354 | 0.00928793 | 0.00119483 |
| NM_002749: mitogen-activated protein kinase 7 (MAPK7), transcript variant 3, mRNA. | | 5598 | 0.00928793 | 0.00120368 |
| NM_006351: translocase of inner mitochondrial membrane 44 homolog (yeast) (TIMM44), mRNA. | | 10469 | 0.00928793 | 0.00126841 |
| NM_003087*: synuclein, gamma (breast cancer-specific protein 1) (SNCG), mRNA. | | 6623 | 0.00928793 | 0.00129024 |
| NM_177454: KIAA1946 protein (KIAA1946), mRNA. | | 165215 | 0.00928793 | 0.00130891 |
| (Intron of known gene) AK024136: cDNA FLJ14074 fis, clone HEMBB1001869. | | 9611 | 0.00928793 | 0.00136322 |
| (Opposite strand of gene) NM_000506: coagulation factor II (thrombin) (F2), mRNA. | | 2147 | 0.00928793 | 0.00142968 |
| NM_053051: LYST-interacting protein LIP8 (LIP8), mRNA. | | 116840 | 0.00928793 | 0.00143982 |
| (Opposite strand of gene) NM_014501: ubiquitin carrier protein (E2-EPF), mRNA. | | 27338 | 0.00928793 | 0.00144167 |
| NM_000725: calcium channel, voltage-dependent, beta 3 subunit (CACNB3), mRNA. | | 784 | 0.00928793 | 0.00144286 |
| (Opposite strand of gene) NM_017447: chromosome 21 open reading frame 91 (C21orf91), mRNA. | | 54149 | 0.00928793 | 0.00147162 |
| NM_006928: silver homolog (mouse) (SILV), mRNA. | | 6490 | 0.00928793 | 0.00153487 |
| NM_015496: DKFZP434I116 protein (DKFZP434I116), transcript variant 1, mRNA. | | 25962 | 0.00928793 | 0.00154432 |
| Hs.56255: keratin 6 1rs4 | | 121391 | 0.00928793 | 0.00155258 |
| Hs.230424: hypothetical protein R29124_1 | | 90273 | 0.00928793 | 0.00157376 |
| NM_014906: protein phosphatase 1E (PP2C domain containing) (PPM1E), mRNA. | | 22843 | 0.00928793 | 0.00161153 |
| (Intron of known gene) NM_000777*: cytochrome P450, family 3, subfamily A, polypeptide 5 (CYP3A5), mRNA. | | 1577 | 0.00928793 | 0.00163865 |
| NM_022823: fibronectin type III domain containing 4 (FNDC4), mRNA. | | 64838 | 0.00928793 | 0.00165784 |
| (Intron of known gene) NM_012161*: F-box and leucine-rich repeat protein 5 (FBXL5), transcript variant 1, mRNA. | | 26234 | 0.00928793 | 0.0017113 |
| Hs.75914: coated vesicle membrane protein | | 10959 | 0.00928793 | 0.00173134 |
| NM_024027: collectin sub-family member 11 (COLEC11), transcript variant 1, mRNA. | | 78989 | 0.00928793 | 0.00173988 |
| NM_021200: pleckstrin homology domain containing, family B (evectins) member 1 (PLEKHb1), mRNA. | | 58473 | 0.00928793 | 0.00178704 |
| (Intron of known gene) AK096548 | | 55125 | 0.00928793 | 0.00181159 |
| Hs.250723: FLJ46603 protein | | 374826 | 0.00928793 | 0.00184397 |
| NM_000474: twist homolog 1 (acrocephalosyndactyly 3; Saethre-Chotzen syndrome) (Drosophila) (TWIST1), mRNA. | | 7291 | 0.00928793 | 0.00187083 |
| Hs.79170: tetratricopeptide repeat domain 9 | | 23508 | 0.00928793 | 0.00187659 |
| (Intron of known gene) NM_031492*: hypothetical protein similar to RNA-binding protein lark (MGC10871), mRNA. | | 83759 | 0.00928793 | 0.00188782 |
| Hs.443567: transitional epithelia response protein | | 29914 | 0.00928793 | 0.00190983 |
| NM_152314: hypothetical protein MGC34830 (MGC34830), mRNA. | | 120196 | 0.00928793 | 0.00197195 |
| NM_020868: dipeptidylpeptidase 10 (DPP10), mRNA. | | 57628 | 0.00928793 | 0.00207984 |
| NM_032214*: Src-like-adaptor 2 (SLA2), transcript variant 1, mRNA. | | 84174 | 0.00928793 | 0.00210797 |
| NM_014849: synaptic vesicle glycoprotein 2A (SV2A), mRNA. | | 9900 | 0.00928793 | 0.00211123 |
| (Opposite strand of gene) NM_007127: villin 1 (VIL1), mRNA. | | 57695 | 0.00928793 | 0.00211322 |
| NM_005987: small proline-rich protein 1A (SPRR1A), mRNA. | | 6698 | 0.00928793 | 0.00216674 |
| NM_001793: cadherin 3, type 1, P-cadherin (placental) (CDH3), mRNA. | | 1001 | 0.00928793 | 0.00217983 |
| NM_022487: DNA cross-link repair 1C (PSO2 homolog, S. cerevisiae) (DCLRE1C), mRNA. | | 64421 | 0.00928793 | 0.00223351 |
| Hs.422215: membrane protein, palmitoylated 1, 55kDa | | 4354 | 0.00928793 | 0.00226238 |
| NM_018212: enabled homolog (Drosophila), mRNA. | | 55740 | 0.00928793 | 0.00229481 |

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| NM_019884: glycogen synthase kinase 3 alpha (GSK3A), mRNA. | 2931 | 0.00928793 | 0.00230908 |
| NM_024105: asparagine-linked glycosylation 12 homolog (yeast, alpha-1,6-mannosyltransferase) (ALG12), mRNA. | 79087 | 0.00928793 | 0.00231408 |
| Hs.134742: family with sequence similarity 20, member C | 56975 | 0.00928793 | 0.00247201 |
| NM_003115: UDP-N-acetylglucosamine pyrophosphorylase 1 (UAP1), mRNA. | 6675 | 0.00928793 | 0.0025069 |
| NM_033106: galanin-like peptide precursor (GALP), mRNA. | 85569 | 0.00928793 | 0.00254429 |
| Hs.404137: hypothetical protein DKFZp667C165 | 83473 | 0.00928793 | 0.00255879 |
| NM_002586: pre-B-cell leukemia transcription factor 2 (PBX2), mRNA. | 5089 | 0.00928793 | 0.0026344 |
| Hs.352156: a disintegrin-like and metalloprotease (reprolysin type) with thrombospondin type 1 motif, 14 | 140766 | 0.00928793 | 0.00277865 |
| NM_021202: chromosome 20 open reading frame 110 (C20orf110), mRNA. | 58476 | 0.00928793 | 0.00292386 |
| Hs.24192: synaptopodin 2 | 171024 | 0.00928793 | 0.00297164 |
| NM_178836: similar to CG12314 gene product (LOC201164), mRNA. | 201164 | 0.00928793 | 0.00299796 |
| Hs.235860: forkhead box P1 | 27086 | 0.00928793 | 0.00303593 |
| NM_080739: chromosome 20 open reading frame 141 (C20orf141), mRNA. | 128653 | 0.00928793 | 0.00303714 |
| NM_002824: parathymosin (PTMS), mRNA. | 5763 | 0.00928793 | 0.00315729 |
| Hs.149425: solute carrier family 28 (sodium-coupled nucleoside transporter), member 3 | 64078 | 0.00928793 | 0.00325999 |
| NM_152609: hypothetical protein FLJ32001 (FLJ32001), mRNA. | 163882 | 0.00928793 | 0.00328307 |
| NM_020389: transient receptor potential cation channel, subfamily C, member 7 (TRPC7), mRNA. | 57113 | 0.00928793 | 0.00334013 |
| NM_000537: renin (REN), mRNA. | 5972 | 0.00928793 | 0.00335666 |
| NM_004947: dedicator of cytokinesis 3 (DOCK3), mRNA. | 1795 | 0.00928793 | 0.00336753 |
| NM_152764*: hypothetical protein MGC35212 (MGC35212), mRNA. | 254528 | 0.00928793 | 0.00339632 |
| NM_003311: pleckstrin homology-like domain, family A, member 2 (PHLDA2), mRNA. | 7262 | 0.00928793 | 0.00350821 |
| Hs.24192: synaptopodin 2 | 171024 | 0.00928793 | 0.00351866 |
| NM_006379: sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3C (SEMA3C), mRNA. | 10512 | 0.00928793 | 0.00353146 |
| NM_014368: LIM homeobox 6 (LHX6), transcript variant 1, mRNA. | 26468 | 0.00928793 | 0.00360014 |
| NM_032947: putative small membrane protein NID67 (NID67), mRNA. | 85027 | 0.00928793 | 0.00369282 |
| NM_024759: hypothetical protein FLJ13955 (FLJ13955), mRNA. | 79815 | 0.00928793 | 0.0038098 |
| NM_000365: triosephosphate isomerase 1 (TPI1), mRNA. | 84727 | 0.00928793 | 0.00384559 |
| NM_015444: Ras-induced senescence 1 (RIS1), mRNA. | 25907 | 0.00928793 | 0.00397939 |
| NM_178521: hypothetical protein FLJ39005 (FLJ39005), mRNA. | 284313 | 0.00928793 | 0.0040079 |
| Hs.28005: transforming growth factor, beta receptor I (activin A receptor type II-like kinase, 53kDa) | 7046 | 0.00928793 | 0.00403024 |
| NM_019842: potassium voltage-gated channel, KQT-like subfamily, member 5 (KCNQ5), mRNA. | 56479 | 0.00928793 | 0.00416399 |
| NM_006296: vaccinia related kinase 2 (VRK2), mRNA. | 7444 | 0.00928793 | 0.00416467 |
| NM_000412: histidine-rich glycoprotein (HRG), mRNA. | 3273 | 0.00928793 | 0.00419094 |
| (Intron of known gene) AF139768: type II transmembrane protein MDL-1 (MDL1) mRNA, complete cds. | 6742 | 0.00928793 | 0.00425216 |
| NM_002730: protein kinase, cAMP-dependent, catalytic, alpha (PRKACA), mRNA. | 5566 | 0.00928793 | 0.00425361 |
| NM_004560: receptor tyrosine kinase-like orphan receptor 2 (ROR2), mRNA. | 4920 | 0.00928793 | 0.00430257 |
| Hs.125465: hypothetical protein MGC22679 | 151230 | 0.00928793 | 0.004376 |
| NM_002273*: keratin 8 (KRT8), mRNA. | 3856 | 0.00928793 | 0.00463512 |
| NM_007159: sarcolemma associated protein (SLMAP), mRNA. | 7871 | 0.00928793 | 0.00467059 |
| NM_019114: erythrocyte membrane protein band 4.1 like 4B (EPB41L4B), mRNA. | 79881 | 0.00928793 | 0.00469403 |
| NM_152737: hypothetical protein MGC33993 (MGC33993), mRNA. | 221687 | 0.00928793 | 0.00497396 |
| NM_031302*: glycosyltransferase (LOC83468), mRNA. | 83468 | 0.00928793 | 0.00508778 |
| BC043652 | 28996 | 0.00928793 | 0.00541715 |
| NM_000066: complement component 8, beta polypeptide (C8B), mRNA. | 732 | 0.00928793 | 0.00569216 |
| Hs.430156: transmembrane 4 superfamily member 11 (plasmolipin) | 51090 | 0.00928793 | 0.00569321 |
| (Intron of known gene) X06596*: Human mRNA for complement component C1s. | 10436 | 0.00928793 | 0.00571914 |
| Hs.330767: SEC63-like (S. cerevisiae) | 11231 | 0.00928793 | 0.00582041 |
| NM_053025: myosin, light polypeptide kinase (MYLK), transcript variant 1, mRNA. | 4638 | 0.00928793 | 0.00584138 |

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| NM_005281: G protein-coupled receptor 3 (GPR3), mRNA. | 2827 | 0.00928793 | 0.00591583 |
| NM_024958: chromosome 20 open reading frame 98 (C20orf98), mRNA. | 80023 | 0.00928793 | 0.00660066 |
| NM_000640: interleukin 13 receptor, alpha 2 (IL13RA2), mRNA. | 3598 | 0.00928793 | 0.00666183 |
| NM_015361: R3H domain (binds single-stranded nucleic acids) containing (R3HDM), mRNA. | 23518 | 0.00928793 | 0.00684254 |
| NM_023942*: hypothetical protein MGC3036 (MGC3036), mRNA. | 113763 | 0.00928793 | 0.00703185 |
| Hs.347537: chromosome 9 open reading frame 4 | 23732 | 0.00928793 | 0.00716384 |
| NM_004984: kinesin family member 5A (KIF5A), mRNA. | 3798 | 0.00928793 | 0.00739669 |
| NM_000578: solute carrier family 11 (proton-coupled divalent metal ion transporters), member 1 (SLC11A1), mRNA. | 6556 | 0.00928793 | 0.00741502 |
| NM_000620: nitric oxide synthase 1 (neuronal) (NOS1), mRNA. | 4842 | 0.00928793 | 0.00742729 |
| BX538173* | 57563 | 0.00928793 | 0.0074702 |
| NM_020804*: protein kinase C and casein kinase substrate in neurons 1 (PACSIN1), mRNA. | 29993 | 0.00928793 | 0.00753746 |
| NM_032801: junctional adhesion molecule 3 (JAM3), mRNA. | 83700 | 0.00928793 | 0.00755089 |
| Hs.388294: MAD, mothers against decapentaplegic homolog 1 (Drosophila) | 79975 | 0.00928793 | 0.00774156 |
| NM_033406: F-box only protein 3 (FBXO3), transcript variant 2, mRNA. | 26273 | 0.00928793 | 0.00804946 |
| NM_032582*: ubiquitin specific protease 32 (USP32), mRNA. | 84669 | 0.00928793 | 0.00822185 |
| (Intron of known gene) AK094133 | 253512 | 0.00928793 | 0.00826682 |
| NM_012396: pleckstrin homology-like domain, family A, member 3 (PHLDA3), mRNA. | 23612 | 0.00928793 | 0.00830112 |
| NM_000668: alcohol dehydrogenase 1B (class I), beta polypeptide (ADH1B), mRNA. | 125 | 0.00928793 | 0.00840923 |
| NM_012134: leiomodin 1 (smooth muscle) (LMOD1), mRNA. | 25802 | 0.00928793 | 0.00847851 |
| Hs.2077: zinc finger protein 8 (clone HF.18) | 7554 | 0.00928793 | 0.00870709 |
| Hs.178062: membrane-associated phospholipase A1 beta | 375108 | 0.00928793 | 0.00887551 |
| NM_032975: dystrobrevin, alpha (DTNA), transcript variant alpha, mRNA. | 1837 | 0.00928793 | 0.00892807 |
| Hs.495628: hypothetical protein MGC4248 | 84293 | 0.00928793 | 0.00914721 |
| NM_000094: collagen, type VII, alpha 1 (epidermolysis bullosa, dystrophic, dominant and recessive) (COL7A1), mRNA. | 1294 | 0.00928793 | 0.00937536 |
| NM_001202: bone morphogenetic protein 4 (BMP4), transcript variant 1, mRNA. | 652 | 0.00928793 | 0.00953431 |
| (Intron of known gene) NM_001615*: actin, gamma 2, smooth muscle, enteric (ACTG2), mRNA. | 72 | 0.00928793 | 0.00963447 |
| NM_016291: inositol hexaphosphate kinase 2 (IHPK2), mRNA. | 51447 | 0.00928793 | 0.00975201 |

Supplemental Table E2.
Upregulated genes in HP

| Gene name | Locus link number | TNOM PValue | t-Test PValue |
|---|-------------------|-------------|---------------|
| "NM_005358: LIM domain only 7 (LMO7), mRNA." | 4008 | 1.1505E-07 | 2.3277E-05 |
| "NM_004585: retinoic acid receptor responder (tazarotene induced) 3 (RARRES3), mRNA." | 5920 | 3.1063E-06 | 1.4692E-08 |
| "NM_005516: major histocompatibility complex, class I, E (HLA-E), mRNA." | 3133 | 3.1063E-06 | 8.581E-08 |
| "Hs.257352: apolipoprotein L, 6" | 80830 | 3.1063E-06 | 1.07E-07 |
| "NM_002985: chemokine (C-C motif) ligand 5 (CCL5), mRNA." | 6352 | 3.1063E-06 | 1.1854E-07 |
| "Hs.351874: major histocompatibility complex, class II, DO alpha" | 3111 | 3.1063E-06 | 2.0498E-07 |
| "NM_148919: proteasome (prosome, macropain) subunit, beta type, 8 mRNA." | 5696 | 3.1063E-06 | 2.9117E-07 |
| "NM_014716: centaurin, beta 1 (CENTB1), mRNA." | 9744 | 3.1063E-06 | 3.2281E-07 |
| "NM_006994: butyrophilin, subfamily 3, member A3 (BTN3A3), transcript variant 1, mRNA." | 11118 | 3.1063E-06 | 3.7758E-07 |
| "NM_000593: transporter 1, ATP-binding cassette, sub-family B (MDR/TAP) (TAP1), mRNA." | 6890 | 3.1063E-06 | 7.1202E-07 |
| "NM_022914: hypothetical protein 24432 (24432), mRNA." | 65057 | 3.1063E-06 | 1.368E-06 |
| "Hs.368409: major histocompatibility complex, class II, DP beta 1" | 3115 | 3.1063E-06 | 2.6687E-06 |
| "NM_014387: linker for activation of T cells (LAT), mRNA." | 27040 | 3.1063E-06 | 2.9103E-06 |
| "NM_006263*: proteasome (prosome, macropain) activator subunit 1 (PA28 alpha) (PSME1), transcript variant 1, mRNA." | 5720 | 3.1063E-06 | 3.4919E-06 |
| "NM_005608: protein tyrosine phosphatase, receptor type, C-associated protein (PTPRCAP), mRNA." | 5790 | 3.1063E-06 | 3.7031E-06 |
| Hs.381220: chromosome 6 open reading frame 187 | 221299 | 3.1063E-06 | 1.0981E-05 |
| "NM_032501: acetyl-Coenzyme A synthetase 2 (AMP forming)-like (ACAS2L), nuclear gene encoding mitochondrial protein, mRNA." | 84532 | 3.1063E-06 | 1.1872E-05 |
| "NM_014299: bromodomain containing 4 (BRD4), transcript variant short, mRNA." | 23476 | 3.1063E-06 | 1.2057E-05 |
| "NM_003726: src family associated phosphoprotein 1 (SCAP1), mRNA." | 8631 | 3.1063E-06 | 1.4209E-05 |
| "NM_006465: dead ringer (Drosophila)-like 2 (bright and dead ringer) (DRIL2), mRNA." | 10620 | 3.1063E-06 | 0.00063649 |
| "NM_007315*: signal transducer and activator of transcription 1, 91kDa (STAT1), transcript variant alpha, mRNA." | 6772 | 4.0382E-05 | 3.0828E-07 |
| "NM_002800: proteasome (prosome, macropain) subunit, beta type, 9 mRNA." | 5698 | 4.0382E-05 | 3.82E-07 |
| "NM_002801*: proteasome (prosome, macropain) subunit, beta type, 10 (PSMB10), mRNA." | 5699 | 4.0382E-05 | 8.5826E-07 |
| "NM_002258: killer cell lectin-like receptor subfamily B, member 1 (KLRB1), mRNA." | 3820 | 4.0382E-05 | 9.4298E-07 |
| "NM_000732: CD3D antigen, delta polypeptide (TiT3 complex) (CD3D), mRNA." | 915 | 4.0382E-05 | 1.1558E-06 |
| "NM_002209: integrin, alpha L (antigen CD11A (p180), lymphocyte function-associated antigen 1; alpha polypeptide) (ITGAL), mRNA." | 3683 | 4.0382E-05 | 1.3539E-06 |
| "NM_002198: interferon regulatory factor 1 (IRF1), mRNA." | 3659 | 4.0382E-05 | 2.2803E-06 |
| "NM_005601: natural killer cell group 7 sequence (NKG7), mRNA." | 4818 | 4.0382E-05 | 2.5394E-06 |
| "NM_001767: CD2 antigen (p50), sheep red blood cell receptor (CD2), mRNA." | 914 | 4.0382E-05 | 3.4159E-06 |
| "NM_007181: mitogen-activated protein kinase kinase kinase 1 (MAP4K1), mRNA." | 11184 | 4.0382E-05 | 3.4635E-06 |
| "NM_002201: interferon stimulated gene 20kDa (ISG20), mRNA." | 3669 | 4.0382E-05 | 3.9685E-06 |
| "NM_001753: caveolin 1, caveolae protein, 22kDa (CAV1), mRNA." | 857 | 4.0382E-05 | 6.878E-06 |
| "NM_004335: bone marrow stromal cell antigen 2 (BST2), mRNA." | 684 | 4.0382E-05 | 7.2499E-06 |
| "NM_005442: eomesodermin homolog (Xenopus laevis) (EOMES), mRNA." | 8320 | 4.0382E-05 | 8.3397E-06 |
| "NM_001558: interleukin 10 receptor, alpha (IL10RA), mRNA." | 3587 | 4.0382E-05 | 1.0847E-05 |
| "NM_003725: 3-hydroxysteroid epimerase (RODH), mRNA." | 8630 | 4.0382E-05 | 1.1081E-05 |
| "NM_006120: major histocompatibility complex, class II, DM alpha (HLA-DMA), mRNA." | 3108 | 4.0382E-05 | 1.141E-05 |
| "NM_002118: major histocompatibility complex, class II, DM beta (HLA-DMB), mRNA." | 3109 | 4.0382E-05 | 1.3627E-05 |
| Hs.136979: hypothetical protein FLJ21438 | 64926 | 4.0382E-05 | 1.4039E-05 |

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| "NM_000070: calpain 3, (p94) (CAPN3), transcript variant 1, mRNA." | 2595 | 4.0382E-05 | 1.4556E-05 |
| "NM_003944: selenium binding protein 1 (SELENBP1), mRNA." | 8991 | 4.0382E-05 | 1.5847E-05 |
| "NM_012455: SEC7 homolog (TIC), mRNA." | 23550 | 4.0382E-05 | 1.7158E-05 |
| "NM_000246*: MHC class II transactivator (MHC2TA), mRNA." | 4261 | 4.0382E-05 | 2.1963E-05 |
| "NM_001109: a disintegrin and metalloproteinase domain 8 (ADAM8), mRNA." | 101 | 4.0382E-05 | 3.0077E-05 |
| "NM_021181: SLAM family member 7 (SLAMF7), mRNA." | 57823 | 4.0382E-05 | 3.0845E-05 |
| "NM_000565: interleukin 6 receptor (IL6R), transcript variant 1, mRNA." | 3570 | 4.0382E-05 | 3.5004E-05 |
| "NM_144626: hypothetical protein MGC17299 (MGC17299), mRNA." | 128218 | 4.0382E-05 | 4.2634E-05 |
| "NM_004355*: CD74 antigen (invariant polypeptide of major histocompatibility complex, class II antigen-associated) (CD74)," | 972 | 4.0382E-05 | 4.5692E-05 |
| "NM_000206: interleukin 2 receptor, gamma (severe combined immunodeficiency) (IL2RG), mRNA." | 3561 | 4.0382E-05 | 5.3729E-05 |
| "NM_003819: poly(A) binding protein, cytoplasmic 4 (inducible form) (PABPC4), mRNA." | 8761 | 4.0382E-05 | 6.3464E-05 |
| "NM_003335: ubiquitin-activating enzyme E1-like (UBE1L), mRNA." | 7318 | 4.0382E-05 | 8.1362E-05 |
| "(Intron of known gene) NM_00376*: vascular endothelial growth factor (VEGF), mRNA." | 7422 | 4.0382E-05 | 8.8399E-05 |
| "NM_020350*: angiotensin II receptor-associated protein (AGTRAP), mRNA." | 57085 | 4.0382E-05 | 0.00010279 |
| "NM_145113: MAX protein (MAX), transcript variant 3, mRNA." | 4149 | 4.0382E-05 | 0.000108 |
| "NM_004064: cyclin-dependent kinase inhibitor 1B (p27, Kip1) (CDKN1B), mRNA." | 1027 | 4.0382E-05 | 0.00011342 |
| "NM_013351: T-box 21 (TBX21), mRNA." | 30009 | 4.0382E-05 | 0.00011373 |
| "NM_032389: zinc finger protein 289, ID1 regulated (ZNF289), mRNA." | 84364 | 4.0382E-05 | 0.00013985 |
| "NM_016946*: F11 receptor (F11R), transcript variant 1, mRNA." | 50848 | 4.0382E-05 | 0.00014903 |
| "NM_020151: START domain containing 7 (STARD7), transcript variant 1, mRNA." | 56910 | 4.0382E-05 | 0.00015452 |
| "NM_032206: nucleotide-binding oligomerization domains 27 (NOD27), mRNA." | 84166 | 4.0382E-05 | 0.00016109 |
| "NM_006378: sema domain, immunoglobulin domain (Ig), transmembrane mRNA." | 10507 | 4.0382E-05 | 0.00017994 |
| "NM_001778: CD48 antigen (B-cell membrane protein) (CD48), mRNA." | 962 | 4.0382E-05 | 0.00019398 |
| "NM_003827: N-ethylmaleimide-sensitive factor attachment protein, alpha (NAPA), mRNA." | 8775 | 4.0382E-05 | 0.00020931 |
| "NM_007074*: coronin, actin binding protein, 1A (CORO1A), mRNA." | 11151 | 4.0382E-05 | 0.00021636 |
| Hs.421750: hypothetical protein FLJ39873 | 201633 | 4.0382E-05 | 0.00036062 |
| "NM_002339: lymphocyte-specific protein 1 (LSP1), mRNA." | 4046 | 4.0382E-05 | 0.0004061 |
| "(Intron of known gene) NM_003879*: CASP8 and FADD-like apoptosis regulator (CFLAR), mRNA." | 8837 | 4.0382E-05 | 0.00043286 |
| "NM_012406: PR domain containing 4 (PRDM4), mRNA." | 11108 | 4.0382E-05 | 0.00060598 |
| "NM_004706*: Rho guanine nucleotide exchange factor (GEF) 1 (ARHGEF1), mRNA." | 10109 | 4.0382E-05 | 0.0006458 |
| "NM_178546: hypothetical protein LOC339483 (LOC339483), mRNA." | 339483 | 4.0382E-05 | 0.00080917 |
| "(Intron of known gene) NM_013449*: bromodomain adjacent to zinc finger domain, 2A (BAZ2A), mRNA." | 11176 | 4.0382E-05 | 0.00116724 |
| "NM_003280: troponin C, slow (TNNC1), mRNA." | 7134 | 4.0382E-05 | 0.001327 |
| "NM_139276: signal transducer and activator of transcription 3 (acute-phase response factor) (STAT3), transcript variant 1, mRNA." | 6774 | 4.0382E-05 | 0.00286754 |
| "NM_005292: G protein-coupled receptor 18 (GPR18), mRNA." | 2841 | 4.0382E-05 | 0.00682888 |
| "Hs.239666: core 1 UDP-galactose:N-acetylgalactosamine-alpha-R beta 1,3-galactosyltransferase" | 56913 | 0.00033652 | 1.0091E-06 |
| "NM_004223*: ubiquitin-conjugating enzyme E2L 6 (UBE2L6), mRNA." | 9246 | 0.00033652 | 1.5169E-06 |
| "Hs.435949: zinc finger protein, subfamily 1A, 1 (Ikars)" | 10320 | 0.00033652 | 1.7314E-06 |
| Hs.155119: EH-domain containing 1 | 10938 | 0.00033652 | 2.3905E-06 |
| "(Intron of known gene) NM_004637*: RAB7, member RAS oncogene family (RAB7), mRNA." | 7879 | 0.00033652 | 3.2824E-06 |
| "NM_006144*: granzyme A (granzyme 1, cytotoxic T-lymphocyte-associated serine esterase 3) (GZMA), mRNA." | 3001 | 0.00033652 | 3.5408E-06 |
| "NM_017623: cyclin M3 (CNNM3), transcript variant 1, mRNA." | 26505 | 0.00033652 | 7.8401E-06 |
| "NM_031437: Ras association (RalGDS/AF-6) domain family 5 (RASSF5), transcript variant 4, mRNA." | 83593 | 0.00033652 | 8.3404E-06 |
| Hs.287379: KIAA1607 protein | 57705 | 0.00033652 | 8.7684E-06 |
| "NM_001320: casein kinase 2, beta polypeptide (CSNK2B), mRNA." | 1460 | 0.00033652 | 9.1676E-06 |
| Hs.192182: spleen tyrosine kinase | 6850 | 0.00033652 | 9.6184E-06 |
| "NM_006377*: unc-13-like (C. elegans) (UNC13), mRNA." | 10497 | 0.00033652 | 1.2261E-05 |

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| "NM_181720: hypothetical protein LOC257106 (LOC257106), mRNA." | 257106 | 0.00033652 | 1.6805E-05 |
| "NM_006084: interferon-stimulated transcription factor 3, gamma 48kDa (ISGF3G), mRNA." | 10379 | 0.00033652 | 1.7461E-05 |
| "NM_006398: ubiquitin D (UBD), mRNA." | 10537 | 0.00033652 | 1.7772E-05 |
| "NM_003874: CD84 antigen (leukocyte antigen) (CD84), mRNA." | 8832 | 0.00033652 | 2.1163E-05 |
| "NM_013385: pleckstrin homology, Sec7 and coiled-coil domains 4 (PSCD4), mRNA." | 27128 | 0.00033652 | 2.3027E-05 |
| "Hs.181244: major histocompatibility complex, class I, A" | 3105 | 0.00033652 | 2.3716E-05 |
| "NM_000265: neutrophil cytosolic factor 1 (47kDa, chronic granulomatous disease, autosomal 1) (NCF1), mRNA." | 4687 | 0.00033652 | 2.7125E-05 |
| "NM_001768: CD8 antigen, alpha polypeptide (p32) (CD8A), transcript variant 1, mRNA." | 925 | 0.00033652 | 3.6982E-05 |
| "AF074331*: PAPS synthetase-2 (PAPSS2) mRNA, complete cds." | 9060 | 0.00033652 | 3.7524E-05 |
| "NM_015033: formin binding protein 1 (FNBP1), mRNA." | 23048 | 0.00033652 | 3.7978E-05 |
| "NM_005532: interferon, alpha-inducible protein 27 (IFI27), mRNA." | 3429 | 0.00033652 | 3.8379E-05 |
| "NM_004355*: CD74 antigen (invariant polypeptide of major histocompatibility complex, class II antigen-associated) (CD74)," | 972 | 0.00033652 | 4.4615E-05 |
| "NM_018530: gasdermin-like (GSDML), mRNA." | 94103 | 0.00033652 | 4.4627E-05 |
| Hs.123164: FLJ00332 protein | 374403 | 0.00033652 | 4.4806E-05 |
| "NM_015138: KIAA0252 protein (KIAA0252), mRNA." | 23168 | 0.00033652 | 4.9223E-05 |
| "NM_001424: epithelial membrane protein 2 (EMP2), mRNA." | 2013 | 0.00033652 | 5.2375E-05 |
| "NM_178562: hypothetical protein MGC50844 (MGC50844), mRNA." | 340348 | 0.00033652 | 5.557E-05 |
| "NM_016118: NEDD8 ultimate buster-1 (NYREN18), mRNA." | 51667 | 0.00033652 | 5.5712E-05 |
| "NM_004305: bridging integrator 1 (BIN1), transcript variant 8, mRNA." | 274 | 0.00033652 | 6.8474E-05 |
| Hs.38070: lymphoid nuclear protein related to AF4 | 3899 | 0.00033652 | 6.881E-05 |
| "Hs.387679: major histocompatibility complex, class II, DQ alpha 1" | 3117 | 0.00033652 | 7.4311E-05 |
| "NM_033554: major histocompatibility complex, class II, DP alpha 1 (HLA-DPA1), mRNA." | 3113 | 0.00033652 | 8.0358E-05 |
| "NM_014857: expressed in hematopoietic cells, heart, liver (HHL), mRNA." | 9910 | 0.00033652 | 8.0668E-05 |
| "Hs.426967: phosphoinositide-3-kinase, catalytic, delta polypeptide" | 5293 | 0.00033652 | 8.1601E-05 |
| "NM_022107: chromosome 6 open reading frame 9 (C6orf9), mRNA." | 63940 | 0.00033652 | 9.2714E-05 |
| "NM_020899: zinc finger and BTB domain containing 4 (ZBTB4), mRNA." | 57659 | 0.00033652 | 9.9253E-05 |
| "Hs.387787: killer cell lectin-like receptor subfamily K, member 1" | 22914 | 0.00033652 | 0.00010199 |
| "NM_004355*: CD74 antigen (invariant polypeptide of major histocompatibility complex, class II antigen-associated) (CD74)," | 972 | 0.00033652 | 0.00010565 |
| "NM_138456: hypothetical protein BC012330 (LOC116071), mRNA." | 116071 | 0.00033652 | 0.00011233 |
| "NM_001465: FYN binding protein (FYB-120/130) (FYB), mRNA." | 2533 | 0.00033652 | 0.00012076 |
| "NM_006280: signal sequence receptor, delta (translocon-associated protein delta) (SSR4), mRNA." | 6748 | 0.00033652 | 0.00012783 |
| "NM_003019: surfactant, pulmonary-associated protein D (SFTP D), mRNA." | 6441 | 0.00033652 | 0.00015899 |
| "(Intron of known gene) NM_16804*: Human T-cell receptor gamma chain VJCl-3(CII)-CIII region mRNA, 3' end." | 6983 | 0.00033652 | 0.00016218 |
| Hs.438972: chromosome 9 open reading frame 28 | 89853 | 0.00033652 | 0.00016286 |
| "(Intron of known gene) NM_032206*: nucleotide-binding oligomerization domains 27 (NOD27), mRNA." | 84166 | 0.00033652 | 0.00018321 |
| "NM_138402: hypothetical protein BC004921 (LOC93349), mRNA." | 93349 | 0.00033652 | 0.00020089 |
| "(Opposite strand of gene) NM_002890: RAS p21 protein activator (GTPase activating protein) 1 (RASA1), transcript variant 1, mRNA." | 5921 | 0.00033652 | 0.00024709 |
| "NM_002773*: protease, serine, 8 (prostasin) (PRSS8), mRNA." | 5652 | 0.00033652 | 0.00025061 |
| "NM_001343*: disabled homolog 2, mitogen-responsive phosphoprotein (Drosophila) (DAB2), mRNA." | 1601 | 0.00033652 | 0.00025269 |
| "NM_016326: chemokine-like factor (CKLF), transcript variant 3, mRNA." | 51192 | 0.00033652 | 0.00027442 |
| "NM_003975*: SH2 domain protein 2A (SH2D2A), mRNA." | 9047 | 0.00033652 | 0.00027442 |
| "NM_052879: c-Mpl binding protein (LOC113251), transcript variant 1, mRNA." | 113251 | 0.00033652 | 0.00029176 |
| Hs.446408: similar to embigin | 133418 | 0.00033652 | 0.00032607 |
| BC051881* | 54440 | 0.00033652 | 0.00032847 |
| "NM_001731*: B-cell translocation gene 1, anti-proliferative (BTG1), mRNA." | 694 | 0.00033652 | 0.00034385 |
| "NM_001242: tumor necrosis factor receptor superfamily, member 7 (TNFRSF7), mRNA." | 939 | 0.00033652 | 0.00038993 |

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| ENSP00000292309*: none_available | 23218 | 0.00033652 | 0.00045171 |
| "NM_012292: minor histocompatibility antigen HA-1 (HA-1), mRNA." | 23526 | 0.00033652 | 0.00046328 |
| "NM_030810: thioredoxin domain containing 5 (TXNDC5), mRNA." | 81567 | 0.00033652 | 0.00046699 |
| (Intron of known gene) BC054050 | 57187 | 0.00033652 | 0.00048136 |
| "NM_005739: RAS guanyl releasing protein 1 (calcium and DAG-regulated) (RASGRP1), mRNA." | 10125 | 0.00033652 | 0.000484 |
| "NM_005127: C-type (calcium dependent, carbohydrate-recognition (CLECSF2), mRNA." | 9976 | 0.00033652 | 0.00052094 |
| "NM_003563: speckle-type POZ protein (SPOP), mRNA." | 8405 | 0.00033652 | 0.00052242 |
| Hs.459526: mucolipin 2 | 255231 | 0.00033652 | 0.00054542 |
| "NM_014233: upstream binding transcription factor, RNA polymerase I (UBTF), mRNA." | 7343 | 0.00033652 | 0.0005639 |
| "NM_012385: p8 protein (candidate of metastasis 1) (P8), mRNA." | 26471 | 0.00033652 | 0.00062627 |
| "NM_002759: protein kinase, interferon-inducible double stranded RNA dependent (PRKR), mRNA." | 5610 | 0.00033652 | 0.00067374 |
| "NM_002460: interferon regulatory factor 4 (IRF4), mRNA." | 3662 | 0.00033652 | 0.00073937 |
| "NM_003650: cystatin F (leukocystatin) (CST7), mRNA." | 8530 | 0.00033652 | 0.00076413 |
| "NM_006030: calcium channel, voltage-dependent, alpha 2/delta subunit 2 (CACNA2D2), mRNA." | 9254 | 0.00033652 | 0.00076612 |
| "NM_005326: hydroxyacylglutathione hydrolase (HAGH), mRNA." | 3029 | 0.00033652 | 0.00086848 |
| "NM_016929: chloride intracellular channel 5 (CLIC5), mRNA." | 53405 | 0.00033652 | 0.00096566 |
| (" Intron of known gene) NM_005914*: MCM4 minichromosome maintenance deficient 4 (S. cerevisiae) (MCM4), transcript variant 1, mRNA." | 4173 | 0.00033652 | 0.00105017 |
| "NM_032807: F-box only protein, helicase, 18 (FBXO18), transcript variant 1, mRNA." | 84893 | 0.00033652 | 0.00106838 |
| "NM_019029: carboxypeptidase, vitellogenin-like (CPVL), transcript variant 2, mRNA." | 54504 | 0.00033652 | 0.00114877 |
| "NM_152520: hypothetical protein FLJ25270 (FLJ25270), mRNA." | 151126 | 0.00033652 | 0.00121421 |
| "NM_004257: transforming growth factor, beta receptor associated protein 1 (TGFBRAP1), mRNA." | 9392 | 0.00033652 | 0.00132411 |
| "NM_001089: ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA." | 21 | 0.00033652 | 0.00150244 |
| "NM_003387: Wiskott-Aldrich syndrome protein interacting protein (WASPIP), mRNA." | 7456 | 0.00033652 | 0.00152097 |
| Hs.9850: hypothetical protein MGC1842 | 83606 | 0.00033652 | 0.00152797 |
| "NM_006817: chromosome 12 open reading frame 8 (C12orf8), mRNA." | 10961 | 0.00033652 | 0.00156049 |
| "NM_144592: chromosome 10 open reading frame 6 (C10orf6), mRNA." | 55719 | 0.00033652 | 0.00159756 |
| "NM_174976: chromosome 14 open reading frame 59 (C14orf59), mRNA." | 283576 | 0.00033652 | 0.00178415 |
| "NM_032343: coiled-coil-helix-coiled-coil-helix domain containing 6 (CHCHD6), mRNA." | 84303 | 0.00033652 | 0.00247147 |
| "NM_032214: Src-like-adaptor 2 (SLA2), transcript variant 1, mRNA." | 84174 | 0.00033652 | 0.00256313 |
| "NM_025228: TRAF3-interacting Jun N-terminal kinase (JNK)-activating modulator (T3JAM), mRNA." | 80342 | 0.00033652 | 0.00277815 |
| Hs.127799: baculoviral IAP repeat-containing 3 | 330 | 0.00033652 | 0.00289093 |
| "NM_012400: phospholipase A2, group IID (PLA2G2D), mRNA." | 26279 | 0.00033652 | 0.00340569 |
| Hs.362996: KIAA0779 protein | 23023 | 0.00033652 | 0.00360468 |
| "NM_015001: SMART/HDAC1 associated repressor protein (SHARP), mRNA." | 23013 | 0.00033652 | 0.0036157 |
| "NM_002741: protein kinase C-like 1 (PRKCL1), mRNA." | 5585 | 0.00033652 | 0.00363797 |
| Hs.278966: claudin 18 | 51208 | 0.00033652 | 0.00372917 |
| "NM_000878: interleukin 2 receptor, beta (IL2RB), mRNA." | 3560 | 0.00033652 | 0.00531621 |
| "NM_153043*: hypothetical protein FLJ37078 (FLJ37078), mRNA." | 222183 | 0.00033652 | 0.00550338 |
| "NM_032811*: likely ortholog of mouse transforming growth factor beta regulated gene 1 (TBKG1), mRNA." | 84897 | 0.00033652 | 0.00597239 |
| "NM_133367: chromosome 6 open reading frame 33 (C6orf33), mRNA." | 85315 | 0.00033652 | 0.00623448 |
| "NM_003879: CASP8 and FADD-like apoptosis regulator (CFLAR), mRNA." | 8837 | 0.00033652 | 0.00648208 |
| "NM_002051: GATA binding protein 3 (GATA3), mRNA." | 2625 | 0.00033652 | 0.00660339 |
| "NM_153048: FYN oncogene related to SRC, FGR, YES (FYN), transcript variant 3, mRNA." | 2534 | 0.00033652 | 0.00689859 |
| "NM_004749: cell cycle progression 2 protein (CPR2), transcript variant 1, mRNA." | 9238 | 0.00033652 | 0.00767408 |
| "NM_033503: Bcl-2 modifying factor (BMF), mRNA." | 90427 | 0.00033652 | 0.00906629 |
| "NM_002984: chemokine (C-C motif) ligand 4 (CCL4), mRNA." | 6351 | 0.00201911 | 6.3196E-06 |
| "NM_178126*: hypothetical protein LOC162427 (LOC162427), mRNA." | 162427 | 0.00201911 | 1.1918E-05 |

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| Hs.439370: hypothetical protein MGC3207 | 84245 | 0.00201911 | 1.5621E-05 |
| "NM_004184*: tryptophanyl-tRNA synthetase (WARS), mRNA." | 7453 | 0.00201911 | 2.1099E-05 |
| Hs.404215: AP1 gamma subunit binding protein 1 | 11276 | 0.00201911 | 2.1346E-05 |
| "NM_001628: aldo-keto reductase family 1, member B1 (aldehyde reductase) (AKR1B1), mRNA." | 231 | 0.00201911 | 0.00002807 |
| "NM_006586: trinucleotide repeat containing 5 (TNRC5), mRNA." | 10695 | 0.00201911 | 2.8721E-05 |
| "Hs.511748: sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4D" | 10507 | 0.00201911 | 3.1257E-05 |
| "NM_005533*: interferon-induced protein 35 (IFI35), mRNA." | 3430 | 0.00201911 | 3.6297E-05 |
| "NM_004762: pleckstrin homology, Sec7 and coiled-coil domains 1(cytohesin 1) (PSCD1), transcript variant 1, mRNA." | 9267 | 0.00201911 | 4.6486E-05 |
| "NM_002416: chemokine (C-X-C motif) ligand 9 (CXCL9), mRNA." | 4283 | 0.00201911 | 5.4339E-05 |
| Hs.378836: hook homolog 1 (<i>Drosophila</i>) | 51361 | 0.00201911 | 5.795E-05 |
| "AK025731: cDNA: FLJ22078 fis, clone HEP13057." | 7528 | 0.00201911 | 5.9547E-05 |
| "NM_173574: hypothetical protein MGC33414 (MGC33414), mRNA." | 257101 | 0.00201911 | 6.46E-05 |
| "NM_133264: WIRE protein (WIRE), mRNA." | 147179 | 0.00201911 | 7.0285E-05 |
| Hs.355141: TNFAIP3 interacting protein 1 | 10318 | 0.00201911 | 7.239E-05 |
| "ENSP00000269300: Phosphoinositide-3-Kinase, regulatory subunit, polypeptide P101. [Source:RefSeq;Acc:NM_014308]" | 23533 | 0.00201911 | 8.6212E-05 |
| "NM_182565: hypothetical protein MGC29814 (MGC29814), mRNA." | 283991 | 0.00201911 | 9.414E-05 |
| "NM_004221*: natural killer cell transcript 4 (NK4), mRNA." | 9235 | 0.00201911 | 9.8112E-05 |
| "NM_005145: guanine nucleotide binding protein (G protein), gamma 7 (GNG7), mRNA." | 90274 | 0.00201911 | 9.8486E-05 |
| "NM_152852: membrane-spanning 4-domains, subfamily A, member 6 ^a (MS4A6A), transcript variant 1, mRNA." | 64231 | 0.00201911 | 0.00010647 |
| "NM_001637: acyloxyacyl hydrolase (neutrophil) (AOAH), mRNA." | 313 | 0.00201911 | 0.00010899 |
| "NM_030767*: AT-hook transcription factor AKNA (AKNA), mRNA." | 80709 | 0.00201911 | 0.00011218 |
| "NM_005479: frequently rearranged in advanced T-cell lymphomas (FRAT1), transcript variant 1, mRNA." | 10023 | 0.00201911 | 0.00011473 |
| "NM_020248: catenin, beta interacting protein 1 (CTNNBIP1), mRNA." | 56998 | 0.00201911 | 0.00011549 |
| "NM_018296: hypothetical protein FLJ11004 (FLJ11004), mRNA." | 55282 | 0.00201911 | 0.00014024 |
| "NM_000527: low density lipoprotein receptor (familial hipercolesterolemia) (LDLR), mRNA." | 3949 | 0.00201911 | 0.00014434 |
| "NM_015629: PRP31 pre-mRNA processing factor 31 homolog (yeast) (PRPF31), mRNA." | 26121 | 0.00201911 | 0.00017823 |
| "NM_014371*: neighbor of A-kinase anchoring protein 95 (NAKAP95), mRNA." | 26993 | 0.00201911 | 0.00017838 |
| "NM_032242: hypothetical protein DKFZp564A176 (DKFZp564A176), mRNA." | 84202 | 0.00201911 | 0.00017905 |
| "NM_018090: hypothetical protein FLJ10420 (FLJ10420), mRNA." | 55707 | 0.00201911 | 0.00018358 |
| "NM_015953: nitric oxide synthase interacting protein (NOSIP), mRNA." | 51070 | 0.00201911 | 0.00018462 |
| ENSP00000320278*: none_available | 90120 | 0.00201911 | 0.00019011 |
| "NM_030927: tetraspanin similar to TM4SF9 (DC-TM4F2), mRNA." | 81619 | 0.00201911 | 0.0002066 |
| Hs.413501: proline-serine-threonine phosphatase interacting protein 2 | 9050 | 0.00201911 | 0.00022523 |
| "NM_032866: hypothetical protein FLJ14957 (FLJ14957), mRNA." | 84952 | 0.00201911 | 0.0002387 |
| "NM_006951: TAF5 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 100kDa (TAF5), transcript variant 1, mRNA." | 6877 | 0.00201911 | 0.00024049 |
| "NM_000063: complement component 2 (C2), mRNA." | 717 | 0.00201911 | 0.00024703 |
| "NM_002221: inositol 1,4,5-trisphosphate 3-kinase B (ITPKB), mRNA." | 3707 | 0.00201911 | 0.00026437 |
| "NM_006774: indolethylamine N-methyltransferase (INMT), mRNA." | 11185 | 0.00201911 | 0.00027708 |
| "NM_022750: zinc finger CCCH type domain containing 1 (ZC3HDC1), mRNA." | 64761 | 0.00201911 | 0.00027776 |
| "(Intron of known gene) NM_000101*: cytochrome b-245, alpha polypeptide (CYBA), mRNA." | 1535 | 0.00201911 | 0.00028295 |
| "NM_005319: histone 1, H1c (HIST1H1C), mRNA." | 3006 | 0.00201911 | 0.00029582 |
| Hs.75835: phosphomannomutase 1 | 5372 | 0.00201911 | 0.00034401 |
| Hs.62264: KIAA0937 protein | 219972 | 0.00201911 | 0.00038052 |
| Hs.94031: hypothetical protein LOC221442 | 221442 | 0.00201911 | 0.00038351 |
| "NM_005335: hematopoietic cell-specific Lyn substrate 1 (HCLS1), mRNA." | 3059 | 0.00201911 | 0.00039058 |
| "NM_172369: complement component 1, q subcomponent, gamma polypeptide (C1QG), mRNA." | 714 | 0.00201911 | 0.00040263 |

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| Hs.37617: myosin IG | 64005 | 0.00201911 | 0.0004068 |
| "NM_012335: myosin IF (MYO1F), mRNA." | 4542 | 0.00201911 | 0.0004226 |
| "NM_015050: KIAA0082 (KIAA0082), mRNA." | 23070 | 0.00201911 | 0.00042711 |
| "NM_031477: hypothetical protein MGC10500 (MGC10500), mRNA." | 83719 | 0.00201911 | 0.0004284 |
| "NM_003467: chemokine (C-X-C motif) receptor 4 (CXCR4), mRNA." | 7852 | 0.00201911 | 0.00043211 |
| "NM_003319: titin (TTN), transcript variant N2-B, mRNA." | 7273 | 0.00201911 | 0.00043367 |
| "NM_004104: fatty acid synthase (FASN), mRNA." | 2194 | 0.00201911 | 0.00045773 |
| "NM_173505: hypothetical protein LOC147463 (LOC147463), mRNA." | 147463 | 0.00201911 | 0.00045833 |
| "NM_024923: nucleoporin 210 (NUP210), mRNA." | 23225 | 0.00201911 | 0.00047628 |
| "NM_152286: FLJ43070 protein (FLJ43070), mRNA." | 375775 | 0.00201911 | 0.00049032 |
| "(Intron of known gene) NM_005049*: PWP2 periodic tryptophan protein homolog (yeast) (PWP2H), mRNA." | 5822 | 0.00201911 | 0.00049071 |
| Hs.1528: KIAA0053 gene product | 9938 | 0.00201911 | 0.00049977 |
| "NM_007245: ataxin 2 related protein (A2LP), transcript variant A, mRNA." | 11273 | 0.00201911 | 0.00053435 |
| "NM_024535: hypothetical protein FLJ22021 (FLJ22021), mRNA." | 79585 | 0.00201911 | 0.00054524 |
| "Hs.390567: FYN oncogene related to SRC, FGR, YES" | 2534 | 0.00201911 | 0.00055853 |
| "NM_000062*: serine (or cysteine) proteinase inhibitor, clade G (C1 inhibitor), member 1, (angioedema, hereditary) (SERPING1), mRNA." | 710 | 0.00201911 | 0.00056372 |
| "NM_000159: glutaryl-Coenzyme A dehydrogenase (GCDH), nuclear gene encoding mitochondrial protein, transcript variant 1, mRNA." | 2639 | 0.00201911 | 0.00056451 |
| "NM_002896: RNA binding motif protein 4 (RBM4), mRNA." | 5936 | 0.00201911 | 0.00057321 |
| "NM_014646: lipin 2 (LPIN2), mRNA." | 9663 | 0.00201911 | 0.00057679 |
| "Hs.436193: sparc/osteonectin, cwcv and kazal-like domains proteoglycan (testican) 2" | 9806 | 0.00201911 | 0.000598 |
| "NM_001079: zeta-chain (TCR) associated protein kinase 70kDa (ZAP70), mRNA." | 7535 | 0.00201911 | 0.00061774 |
| "NM_013365: golgi associated, gamma adaptin ear containing, ARF binding protein 1 (GGA1), mRNA." | 26088 | 0.00201911 | 0.00062144 |
| "NM_020125: SLAM family member 8 (SLAMF8), mRNA." | 56833 | 0.00201911 | 0.00062281 |
| "NM_003730: ribonuclease T2 (RNASET2), mRNA." | 8635 | 0.00201911 | 0.00066909 |
| "NM_018000: hypothetical protein FLJ10116 (FLJ10116), mRNA." | 55686 | 0.00201911 | 0.00069366 |
| "NM_080659: similar to RIKEN cDNA 2310030G06 gene (MGC14839), mRNA." | 91894 | 0.00201911 | 0.00069462 |
| "NM_018384: immune associated nucleotide 4 like 1 (mouse) (IAN4L1), mRNA." | 55340 | 0.00201911 | 0.00069475 |
| "NM_145912: NFAT activation molecule 1 (NFAM1), mRNA." | 57804 | 0.00201911 | 0.00071113 |
| "NM_024712: engulfment and cell motility 3 (ced-12 homolog, C. elegans) (ELMO3), mRNA." | 79767 | 0.00201911 | 0.0007462 |
| Hs.59838: hypothetical protein FLJ10808 | 55236 | 0.00201911 | 0.00078746 |
| "NM_015327: Est1p-like protein B (EST1B), mRNA." | 23381 | 0.00201911 | 0.00081262 |
| "NM_017555: egl nine homolog 2 (C. elegans) (EGLN2), transcript variant 2, mRNA." | 112398 | 0.00201911 | 0.00082231 |
| "NM_002120: major histocompatibility complex, class II, DO beta (HLA-DOB), mRNA." | 3112 | 0.00201911 | 0.00082806 |
| "NM_019034: ras homolog gene family, member F (in filopodia) (ARHF), mRNA." | 54509 | 0.00201911 | 0.00088726 |
| "NM_015129: septin 6 (SEPT6), transcript variant II, mRNA." | 23157 | 0.00201911 | 0.00089413 |
| Hs.417062: hypothetical protein FLJ12687 | 79979 | 0.00201911 | 0.00091357 |
| "NM_002744: protein kinase C, zeta (PRKCZ), mRNA." | 5590 | 0.00201911 | 0.00094105 |
| "NM_030935: TSC-22-like (THG-1), mRNA." | 81628 | 0.00201911 | 0.00099633 |
| "(Intron of known gene) NM_004310*: ras homolog gene family, member H (ARHH), mRNA." | 399 | 0.00201911 | 0.00104147 |
| "NM_004688: N-myc (and STAT) interactor (NMI), mRNA." | 9111 | 0.00201911 | 0.00104328 |
| "NM_032412: putative nuclear protein ORF1-FL49 (ORF1-FL49), mRNA." | 84418 | 0.00201911 | 0.00107097 |
| "(Intron of known gene) NM_003177*: spleen tyrosine kinase (SYK), mRNA." | 6850 | 0.00201911 | 0.00108026 |
| "NM_000429: methionine adenosyltransferase I, alpha (MAT1A), mRNA." | 4143 | 0.00201911 | 0.00108599 |
| "NM_018440: phosphoprotein associated with glycosphingolipid-enriched microdomains (PAG), mRNA." | 55824 | 0.00201911 | 0.00109378 |
| "NM_001565: chemokine (C-X-C motif) ligand 10 (CXCL10), mRNA." | 3627 | 0.00201911 | 0.00109636 |
| "NM_032023: Ras association (RalGDS/AF-6) domain family 4 (RASSF4), transcript variant 1, mRNA." | 83937 | 0.00201911 | 0.00113718 |
| "NM_005990: serine/threonine kinase 10 (STK10), mRNA." | 6793 | 0.00201911 | 0.00114801 |
| "NM_002830: protein tyrosine phosphatase, non-receptor type 4 (megakaryocyte) | 5775 | 0.00201911 | 0.00116851 |

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| (PTPN4), mRNA." | | | |
| "NM_172251*: mitochondrial ribosomal protein L54 (MRPL54), nuclear gene encoding mitochondrial protein, mRNA." | 116541 | 0.00201911 | 0.00117584 |
| "NM_145641: apolipoprotein L, 3 (APOL3), transcript variant beta/a, mRNA." | 80833 | 0.00201911 | 0.001177 |
| "NM_178129: purinergic receptor P2Y, G-protein coupled, 8 (P2RY8), mRNA." | 286530 | 0.00201911 | 0.00126988 |
| "NM_033387: chromosome 9 open reading frame 59 (C9orf59), mRNA." | 286336 | 0.00201911 | 0.00132872 |
| "NM_006705: growth arrest and DNA-damage-inducible, gamma (GADD45G), mRNA." | 10912 | 0.00201911 | 0.00138934 |
| "NM_006634: vesicle-associated membrane protein 5 (myobrevin) (VAMP5), mRNA." | 10791 | 0.00201911 | 0.00143976 |
| Hs.128316: BAI1-associated protein 2 | 10458 | 0.00201911 | 0.00150967 |
| Hs.136280: Kruppel-like factor 16 | 83855 | 0.00201911 | 0.00151935 |
| "NM_031443: chromosome 7 open reading frame 22 (C7orf22), mRNA." | 83605 | 0.00201911 | 0.00152426 |
| "NM_014398: lysosomal-associated membrane protein 3 (LAMP3), mRNA." | 27074 | 0.00201911 | 0.00153458 |
| Hs.25770: KIAA1509 | 57641 | 0.00201911 | 0.00155897 |
| "NM_016594: FK506 binding protein 11, 19 kDa (FKBP11), mRNA." | 51303 | 0.00201911 | 0.00187346 |
| "NM_004513: interleukin 16 (lymphocyte chemoattractant factor) (IL16), transcript variant 1, mRNA." | 3603 | 0.00201911 | 0.00188205 |
| "Hs.470847: pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 2" | 59339 | 0.00201911 | 0.00189869 |
| "NM_012179: F-box only protein 7 (FBXO7), mRNA." | 25793 | 0.00201911 | 0.00200158 |
| Hs.156016: KIAA0140 gene product | 9679 | 0.00201911 | 0.00206144 |
| Hs.370100: hypothetical protein MGC874 | 51260 | 0.00201911 | 0.00212447 |
| Hs.99724: zinc finger protein 287 | 57336 | 0.00201911 | 0.00213107 |
| "NM_005781: activated Cdc42-associated kinase 1 (ACK1), mRNA." | 10188 | 0.00201911 | 0.00213368 |
| "NM_007261: leukocyte membrane antigen (CMRF-35H), mRNA." | 11314 | 0.00201911 | 0.00214496 |
| Hs.120170: hypothetical protein FLJ21415 | 79794 | 0.00201911 | 0.00218795 |
| "NM_025151: Rab coupling protein (RCP), mRNA." | 80223 | 0.00201911 | 0.00221841 |
| "NM_012305: adaptor-related protein complex 2, alpha 2 subunit (AP2A2), mRNA." | 161 | 0.00201911 | 0.00224379 |
| "NM_024700: Smad nuclear interacting protein (SNIP1), mRNA." | 79753 | 0.00201911 | 0.00233617 |
| Hs.179089: hypothetical protein DKFZp434H2111 | 120892 | 0.00201911 | 0.00245285 |
| "NM_015641: testis derived transcript (3 LIM domains) (TES), transcript variant 1, mRNA." | 26136 | 0.00201911 | 0.00250079 |
| Hs.499355: KIAA0226 gene product | 9711 | 0.00201911 | 0.00254334 |
| "NM_032687*: hypothetical protein MGC13010 (MGC13010), mRNA." | 157542 | 0.00201911 | 0.00263922 |
| Hs.241471: Enah/Vasp-like | 51466 | 0.00201911 | 0.00267453 |
| "NM_153461: interleukin 17 receptor C (IL17RC), transcript variant 1, mRNA." | 84818 | 0.00201911 | 0.0026955 |
| "NM_003922: hect (homologous to the E6-AP (UBE3A) carboxyl terminus) domain and RCC1 (CHC1)-like domain (RLD) 1 (HERC1), mRNA." | 8925 | 0.00201911 | 0.00272725 |
| "NM_030810*: thioredoxin domain containing 5 (TXNDC5), mRNA." | 81567 | 0.00201911 | 0.00278595 |
| (Opposite strand of gene) ENSP00000306861: none_available | 57557 | 0.00201911 | 0.00283986 |
| (Intron of known gene) ENSP00000277404*: Surfeit Locus Protein 1. [Source:SWISSPROT;Acc:Q15526] | 6834 | 0.00201911 | 0.00284211 |
| "NM_003884: p300/CBP-associated factor (PCAF), mRNA." | 8850 | 0.00201911 | 0.0028777 |
| "NM_000733: CD3E antigen, epsilon polypeptide (TiT3 complex) (CD3E), mRNA." | 916 | 0.00201911 | 0.00294939 |
| "NM_018201: hypothetical protein FLJ10743 (FLJ10743), mRNA." | 54662 | 0.00201911 | 0.00295579 |
| "NM_018218: ubiquitin specific protease 40 (USP40), mRNA." | 55230 | 0.00201911 | 0.00298117 |
| "NM_018447: 30 kDa protein (LOC55831), mRNA." | 55831 | 0.00201911 | 0.00302669 |
| "Hs.432374: Mdm4, transformed 3T3 cell double minute 4, p53 binding protein (mouse)" | 4194 | 0.00201911 | 0.00313861 |
| "NM_001136: advanced glycosylation end product-specific receptor (AGER), transcript variant 1, mRNA." | 177 | 0.00201911 | 0.00313887 |
| "NM_012154: eukaryotic translation initiation factor 2C, 2 (EIF2C2), mRNA." | 27161 | 0.00201911 | 0.00321003 |
| "NM_021798: interleukin 21 receptor (IL21R), transcript variant 1, mRNA." | 50615 | 0.00201911 | 0.003582 |
| "NM_139280: ORM1-like 3 (S. cerevisiae) (ORMDL3), mRNA." | 94103 | 0.00201911 | 0.00371995 |
| "(Intron of known gene) NM_015277*: neural precursor cell expressed, developmentally down-regulated 4-like (NEDD4L), mRNA." | 23327 | 0.00201911 | 0.00384465 |
| "Hs.43654: ceroid-lipofuscinosis, neuronal 6, late infantile, variant" | 91860 | 0.00201911 | 0.00400045 |
| "NM_015017: ubiquitin specific protease 33 (USP33), mRNA." | 23032 | 0.00201911 | 0.00404374 |

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| "NM_175738: RAB37, member of RAS oncogene family (RAB37), mRNA." | 326624 | 0.00201911 | 0.00409134 |
| "NM_022003: FXYD domain containing ion transport regulator 6 (FXYD6), mRNA." | 53826 | 0.00201911 | 0.00410474 |
| "NM_014748: sorting nexin 17 (SNX17), mRNA." | 9784 | 0.00201911 | 0.00412774 |
| "NM_016221: dynactin 4 (p62) (DCTN4), mRNA." | 51164 | 0.00201911 | 0.00430598 |
| "NM_001936: dipeptidylpeptidase 6 (DPP6), transcript variant 2, mRNA." | 1804 | 0.00201911 | 0.00434692 |
| "NM_001953: endothelial cell growth factor 1 (platelet-derived) (ECGF1), mRNA." | 1890 | 0.00201911 | 0.00438273 |
| "(Intron of known gene) NM_004048*: beta-2-microglobulin (B2M), mRNA." | 567 | 0.00201911 | 0.00442459 |
| "NM_005091: peptidoglycan recognition protein (PGLYRP), mRNA." | 8993 | 0.00201911 | 0.00443504 |
| "NM_022474: membrane protein, palmitoylated 5 (MAGUK p55 subfamily member 5) (MPP5), mRNA." | 64398 | 0.00201911 | 0.00454917 |
| (Opposite strand of gene) ENSP00000234543: none_available | 54455 | 0.00201911 | 0.00457605 |
| "NM_018009: TAP binding protein related (TAPBP-R), mRNA." | 55080 | 0.00201911 | 0.00494794 |
| "NM_002456: mucin 1, transmembrane (MUC1), mRNA." | 4582 | 0.00201911 | 0.00498535 |
| Hs.314683: PR domain containing 15 | 63977 | 0.00201911 | 0.0049972 |
| "NM_014862: aryl-hydrocarbon receptor nuclear translocator 2 (ARNT2), mRNA." | 9915 | 0.00201911 | 0.00505286 |
| "NM_174896: hypothetical protein MGC24133 (MGC24133), mRNA." | 128346 | 0.00201911 | 0.00509161 |
| "NM_003347: ubiquitin-conjugating enzyme E2L 3 (UBE2L3), transcript variant 1, mRNA." | 7332 | 0.00201911 | 0.00515061 |
| "NM_020818: KIAA1409 (KIAA1409), mRNA." | 57578 | 0.00201911 | 0.00547769 |
| "NM_022118: chromosome 13 open reading frame 10 (C13orf10), mRNA." | 64062 | 0.00201911 | 0.00547776 |
| "NM_024419: phosphatidylglycerophosphate synthase (PGS1), mRNA." | 9489 | 0.00201911 | 0.0057459 |
| Hs.356250: lectin-like NK cell receptor | 29121 | 0.00201911 | 0.00587163 |
| "NM_002589: BH-protocadherin (brain-heart) (PCDH7), transcript variant a, mRNA." | 5099 | 0.00201911 | 0.00596313 |
| "NM_002911: regulator of nonsense transcripts 1 (RENT1), mRNA." | 5976 | 0.00201911 | 0.00598301 |
| "(Intron of known gene) NM_031902*: mitochondrial ribosomal protein S5 (MRPS5), nuclear gene encoding mitochondrial protein, mRNA." | 64969 | 0.00201911 | 0.00614266 |
| "NM_004860: fragile X mental retardation, autosomal homolog 2 (FXR2), mRNA." | 9513 | 0.00201911 | 0.00640758 |
| ENSP00000306522: MSTP023. [Source:SPTREMBL;Acc:Q8WYI3] | 23261 | 0.00201911 | 0.00643791 |
| Hs.134883: KIAA1271 protein | 57506 | 0.00201911 | 0.00667681 |
| "NM_018206: vacuolar protein sorting 35 (yeast) (VPS35), mRNA." | 55737 | 0.00201911 | 0.00673635 |
| "NM_133379: titin (TTN), transcript variant novex-3, mRNA." | 7273 | 0.00201911 | 0.00707857 |
| "NM_002872: ras-related C3 botulinum toxin substrate 2 (rho family, small GTP binding protein Rac2) (RAC2), mRNA." | 5880 | 0.00201911 | 0.0070998 |
| "NM_001398*: enoyl Coenzyme A hydratase 1, peroxisomal (ECH1), mRNA." | 1891 | 0.00201911 | 0.0076916 |
| "(Intron of known gene) NM_016163*: chromosome 14 open reading frame 163 (C14orf163), mRNA." | 23256 | 0.00201911 | 0.00792123 |
| Hs.169600: KIAA0826 protein | 23045 | 0.00201911 | 0.00858709 |
| "NM_023938: specifically androgen-regulated protein (SARG), mRNA." | 79098 | 0.00201911 | 0.00895496 |
| Hs.6947: huntingtin interacting protein B | 29072 | 0.00201911 | 0.00902428 |
| BC042431 | 1903 | 0.00201911 | 0.00906814 |
| "NM_153365: hypothetical protein FLJ90013 (FLJ90013), mRNA." | 202018 | 0.00201911 | 0.00928258 |
| "NM_030882*: apolipoprotein L, 2 (APOL2), transcript variant alpha, mRNA." | 23780 | 0.00201911 | 0.00936129 |
| "(Intron of known gene) NM_016538*: sirtuin (silent mating type information regulation 2 homolog) 7 (S. cerevisiae) (SIRT7), mRNA." | 51547 | 0.00201911 | 0.00943537 |
| "NM_032861*: serine active site containing 1 (SERAC1), mRNA." | 84947 | 0.00201911 | 0.00967413 |
| "NM_000491: complement component 1, q subcomponent, beta polypeptide (C1QB), mRNA." | 713 | 0.00928793 | 9.0805E-05 |
| (Intron of known gene) ENSP00000225943: none_available | 22834 | 0.00928793 | 9.3522E-05 |
| "NM_000579: chemokine (C-C motif) receptor 5 (CCR5), mRNA." | 1234 | 0.00928793 | 9.6163E-05 |
| Hs.123654: pre-mRNA cleavage complex II protein Pcf11 | 51585 | 0.00928793 | 0.00017018 |
| "NM_014966: DEAH (Asp-Glu-Ala-His) box polypeptide 30 (DHX30), transcript variant 2, mRNA." | 22907 | 0.00928793 | 0.00017518 |
| Hs.152925: KIAA1268 protein | 54625 | 0.00928793 | 0.00018827 |
| "NM_005957: 5,10-methylenetetrahydrofolate reductase (NADPH) (MTHFR), mRNA." | 4524 | 0.00928793 | 0.00019813 |
| "NM_005565: lymphocyte cytosolic protein 2 (SH2 domain containing leukocyte protein of 76kDa) (LCP2), mRNA." | 3937 | 0.00928793 | 0.00020396 |

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| "NM_014266: hematopoietic cell signal transducer (HCST), mRNA." | 10870 | 0.00928793 | 0.00021852 |
| "NM_023914: G protein-coupled receptor 86 (GPR86), transcript variant 1, mRNA." | 53829 | 0.00928793 | 0.00023646 |
| "NM_004951: Epstein-Barr virus induced gene 2 (lymphocyte-specific G protein-coupled receptor) (EBI2), mRNA." | 1880 | 0.00928793 | 0.00024425 |
| (Intron of known gene) ENSP0000270238*: none_available | 114783 | 0.00928793 | 0.00025113 |
| "NM_173797*: hypothetical protein FLJ38499 (FLJ38499), mRNA." | 167153 | 0.00928793 | 0.00025126 |
| "NM_006056: G protein-coupled receptor 66 (GPR66), mRNA." | 10316 | 0.00928793 | 0.00025659 |
| "NM_153239: hypothetical protein KIAA1924 (KIAA1924), mRNA." | 197336 | 0.00928793 | 0.00026398 |
| Hs.291623: hypothetical protein BC017488 | 124446 | 0.00928793 | 0.00027755 |
| "NM_006415: serine palmitoyltransferase, long chain base subunit 1 (SPTLC1), transcript variant 1, mRNA." | 10558 | 0.00928793 | 0.00028595 |
| "NM_020529: nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha (NFKBIA), mRNA." | 4792 | 0.00928793 | 0.00030129 |
| "NM_032012: chromosome 9 open reading frame 5 (C9orf5), mRNA." | 23731 | 0.00928793 | 0.00030492 |
| "NM_130807: MOB-LAK (moblak), mRNA." | 126308 | 0.00928793 | 0.0003301 |
| "NM_032045: kringle containing transmembrane protein 1 (KREMEN1), transcript variant 2, mRNA." | 83999 | 0.00928793 | 0.00035138 |
| "NM_019111: major histocompatibility complex, class II, DR alpha (HLA-DRA), mRNA." | 3122 | 0.00928793 | 0.00036044 |
| "(Intron of known gene) NM_004725*: BUB3 budding uninhibited by benzimidazoles 3 homolog (yeast) (BUB3), mRNA." | 9184 | 0.00928793 | 0.00037036 |
| "NM_032344*: hypothetical protein MGC13045 (MGC13045), mRNA." | 84304 | 0.00928793 | 0.00040093 |
| "NM_003820: tumor necrosis factor receptor superfamily, member 14 (herpesvirus entry mediator) (TNFRSF14), mRNA." | 8764 | 0.00928793 | 0.00041457 |
| "(Opposite strand of gene) NM_152588: hypothetical protein DKFZp762A217 (DKFZp762A217), mRNA." | 160335 | 0.00928793 | 0.00045179 |
| "NM_015374*: unc-84 homolog B (C. elegans) (UNC84B), mRNA." | 25777 | 0.00928793 | 0.00049257 |
| "NM_181485*: hypothetical protein FLJ14972 (KIAA1847), transcript variant 3, mRNA." | 84619 | 0.00928793 | 0.0004936 |
| "NM_144962: hypothetical protein MGC22776 (MGC22776), mRNA." | 157310 | 0.00928793 | 0.00051494 |
| "NM_002768: procollagen (type III) N-endopeptidase (PCOLN3), mRNA." | 5119 | 0.00928793 | 0.00052049 |
| "Hs.409934: major histocompatibility complex, class II, DQ beta 1" | 3119 | 0.00928793 | 0.00055793 |
| "NM_006739: MCM5 minichromosome maintenance deficient 5, cell division cycle 46 (S. cerevisiae) (MCM5), mRNA." | 4174 | 0.00928793 | 0.00055839 |
| "NM_014585: solute carrier family 40 (iron-regulated transporter), member 1 (SLC40A1), mRNA." | 30061 | 0.00928793 | 0.00056919 |
| "NM_020185*: dual specificity phosphatase 22 (DUSP22), mRNA." | 56940 | 0.00928793 | 0.00059833 |
| "NM_052880: HGFL gene (MGC17330), mRNA." | 113791 | 0.00928793 | 0.00061735 |
| ENSP0000281187: none_available | 112936 | 0.00928793 | 0.00064952 |
| "NM_133379: titin (TTN), transcript variant novex-3, mRNA." | 7273 | 0.00928793 | 0.00065118 |
| "NM_022473*: zinc finger protein 106 (ZFP106), mRNA." | 64397 | 0.00928793 | 0.00065419 |
| "NM_007367: RNA binding protein (autoantigenic, hnRNP-associated with lethal yellow) (RALY), transcript variant 2, mRNA." | 22913 | 0.00928793 | 0.00069929 |
| "NM_013286: chromosome 3p21.1 gene sequence (HUMAGCGB), mRNA." | 29890 | 0.00928793 | 0.00071862 |
| "(Opposite strand of gene) NM_021194: solute carrier family 30 (zinc transporter), member 1 (SLC30A1), mRNA." | 7779 | 0.00928793 | 0.00075957 |
| "NM_004742: BAI1-associated protein 1 (BAIAP1), mRNA." | 9223 | 0.00928793 | 0.00077106 |
| "NM_006926: surfactant, pulmonary-associated protein A2 (SFTPA2), mRNA." | 6436 | 0.00928793 | 0.0007712 |
| "NM_153256: chromosome 10 open reading frame 47 (C10orf47), mRNA." | 254427 | 0.00928793 | 0.00078279 |
| Hs.355581: zinc finger protein 297B | 23099 | 0.00928793 | 0.00079139 |
| ENSP0000282272*: none_available | 91526 | 0.00928793 | 0.00081077 |
| "NM_017523: XIAP associated factor-1 (HSXIAPAF1), transcript variant 1, mRNA." | 54739 | 0.00928793 | 0.00081433 |
| "NM_002818*: proteasome (prosome, macropain) activator subunit 2 (PA28 beta) (PSME2), mRNA." | 5721 | 0.00928793 | 0.00082005 |
| "NM_005067: seven in absentia homolog 2 (Drosophila) (SIAH2), mRNA." | 6478 | 0.00928793 | 0.00082717 |
| "NM_017743: dipeptidylpeptidase 8 (DPP8), transcript variant 2, mRNA." | 54878 | 0.00928793 | 0.00088777 |
| "NM_017967: hypothetical protein FLJ20850 (FLJ20850), mRNA." | 55049 | 0.00928793 | 0.00091691 |
| "NM_013241: formin homology 2 domain containing 1 (FHOD1), mRNA." | 29109 | 0.00928793 | 0.0009306 |
| "(Opposite strand of gene) NM_000120: epoxide hydrolase 1, microsomal (xenobiotic) (EPHX1), mRNA." | 2052 | 0.00928793 | 0.00094078 |
| Hs.378501: hypothetical protein LOC283989 | 283989 | 0.00928793 | 0.00100812 |

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| "NM_052966: chromosome 1 open reading frame 24 (C1orf24), mRNA." | 116496 | 0.00928793 | 0.0010184 |
| "NM_024798: sorting nexin 22 (SNX22), mRNA." | 5479 | 0.00928793 | 0.00102804 |
| "NM_005312: guanine nucleotide-releasing factor 2 (specific for crk proto-oncogene) (GRF2), transcript variant 1, mRNA." | 2889 | 0.00928793 | 0.00103338 |
| "NM_002815: proteasome (prosome, macropain) 26S subunit, non-ATPase, 11 (PSMD11), mRNA." | 5717 | 0.00928793 | 0.00107287 |
| "NM_018553: ELG protein (HSA277841), mRNA." | 55421 | 0.00928793 | 0.00107465 |
| "NM_006715: mannosidase, alpha, class 2C, member 1 (MAN2C1), mRNA." | 4123 | 0.00928793 | 0.00110132 |
| Hs.301658: KIAA0513 gene product | 9764 | 0.00928793 | 0.00111456 |
| "NM_004639: HLA-B associated transcript 3 (BAT3), transcript variant 1, mRNA." | 7917 | 0.00928793 | 0.00111834 |
| "(Intron of known gene) AF279897*: PNAS-143 mRNA, complete cds." | 51043 | 0.00928793 | 0.00112755 |
| "(Opposite strand of gene) NM_001903: catenin (cadherin-associated protein), alpha 1, 102kDa (CTNNA1), mRNA." | 26045 | 0.00928793 | 0.0011296 |
| "(Intron of known gene) NM_024060*: hypothetical protein MGC5395 (MGC5395), mRNA." | 79026 | 0.00928793 | 0.00118918 |
| "NM_003761: vesicle-associated membrane protein 8 (endobrevin) (VAMP8), mRNA." | 8673 | 0.00928793 | 0.00123769 |
| "NM_001433: ER to nucleus signalling 1 (ERN1), mRNA." | 2081 | 0.00928793 | 0.0012583 |
| Hs.289848: histone methyltransferase DOT1L | 84444 | 0.00928793 | 0.00126568 |
| "NM_020132: 1-acylglycerol-3-phosphate O-acyltransferase 3 (AGPAT3), mRNA." | 56894 | 0.00928793 | 0.00127832 |
| "NM_031231: amyloid beta (A4) precursor protein-binding, family A, member 2 binding protein (APBA2BP), transcript variant 1, mRNA." | 63941 | 0.00928793 | 0.0012882 |
| "(Intron of known gene) NM_022141*: parvin, gamma (PARVG), mRNA." | 64098 | 0.00928793 | 0.00130597 |
| "NM_006676: ubiquitin specific protease 20 (USP20), mRNA." | 10868 | 0.00928793 | 0.00131667 |
| "NM_004877: glia maturation factor, gamma (GMFG), mRNA." | 9535 | 0.00928793 | 0.00133138 |
| "NM_015318*: Rho-specific guanine nucleotide exchange factor p114 (P114-RHO-GEF), mRNA." | 23370 | 0.00928793 | 0.00139106 |
| "NM_021134: mitochondrial ribosomal protein L23 (MRPL23), nuclear gene encoding mitochondrial protein, mRNA." | 6150 | 0.00928793 | 0.0014418 |
| AK075364* | 84068 | 0.00928793 | 0.00144813 |
| "NM_152747: hypothetical protein DKFZp586I1420 (DKFZp586I1420), mRNA." | 222161 | 0.00928793 | 0.0014556 |
| "NM_014020: LR8 protein (LR8), mRNA." | 28959 | 0.00928793 | 0.0014608 |
| "NM_005698: secretory carrier membrane protein 3 (SCAMP3), transcript variant 1, mRNA." | 10067 | 0.00928793 | 0.0014781 |
| "NM_138287: rhysin 2 (LOC151636), mRNA." | 151636 | 0.00928793 | 0.00154486 |
| "NM_003108: SRY (sex determining region Y)-box 11 (SOX11), mRNA." | 6664 | 0.00928793 | 0.00156044 |
| AL832796 | 79092 | 0.00928793 | 0.00160366 |
| "NM_018079: hypothetical protein FLJ10379 (FLJ10379), mRNA." | 55133 | 0.00928793 | 0.00163501 |
| "NM_052838: septin 1 (SEPT1), mRNA." | 1731 | 0.00928793 | 0.00163821 |
| "Hs.75251: protein inhibitor of activated STAT, 1" | 8554 | 0.00928793 | 0.00167863 |
| "NM_021933*: hypothetical protein FLJ12438 (FLJ12438), mRNA." | 60672 | 0.00928793 | 0.00175648 |
| "NM_145030: hypothetical protein MGC22793 (MGC22793), mRNA." | 221908 | 0.00928793 | 0.00178292 |
| "NM_015914: hypothetical protein LOC51061 (LOC51061), mRNA." | 51061 | 0.00928793 | 0.00179591 |
| "NM_033086: FGD1 family, member 3 (FGD3), mRNA." | 89846 | 0.00928793 | 0.0018135 |
| Hs.436329: scribble | 23513 | 0.00928793 | 0.00181658 |
| "(Intron of known gene) NM_005752*: C-type (calcium dependent, carbohydrate-recognition domain) lectin, superfamily member 1 (cartilage-derived) (CLECSF1)," | 10143 | 0.00928793 | 0.00184672 |
| "NM_005053: RAD23 homolog A (S. cerevisiae) (RAD23A), mRNA." | 5886 | 0.00928793 | 0.00190695 |
| "NM_032775: hypothetical protein FLJ14360 (FLJ14360), mRNA." | 84861 | 0.00928793 | 0.00194423 |
| "NM_032377: hypothetical protein MGC4549 (MGC4549), mRNA." | 84337 | 0.00928793 | 0.00195662 |
| Hs.328109: hypothetical protein FLJ20136 | 54832 | 0.00928793 | 0.0019704 |
| "NM_153029*: hypothetical protein FLJ31821 (FLJ31821), mRNA." | 146268 | 0.00928793 | 0.00197718 |
| "NM_021622: pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 1 (PLEKHA1), mRNA." | 59338 | 0.00928793 | 0.00199204 |
| "NM_012234: RING1 and YY1 binding protein (RYBP), mRNA." | 23429 | 0.00928793 | 0.00204628 |
| "Hs.444982: amyotrophic lateral sclerosis 2 (juvenile) chromosome region, candidate 8" | 79800 | 0.00928793 | 0.00206028 |
| "NM_000216: Kallmann syndrome 1 sequence (KAL1), mRNA." | 3730 | 0.00928793 | 0.00207358 |
| Hs.297483: KIAA0339 gene product | 9739 | 0.00928793 | 0.00207391 |

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| "NM_003355: uncoupling protein 2 (mitochondrial, proton carrier) (UCP2), nuclear gene encoding mitochondrial protein, mRNA." | 7351 | 0.00928793 | 0.0021125 |
| "NM_052871: hypothetical protein MGC4677 (MGC4677), mRNA." | 112597 | 0.00928793 | 0.00214891 |
| "NM_002827: protein tyrosine phosphatase, non-receptor type 1 (PTPN1), mRNA." | 5770 | 0.00928793 | 0.00219867 |
| "NM_019086: hypothetical protein FLJ20674 (FLJ20674), mRNA." | 144305 | 0.00928793 | 0.0022045 |
| "NM_004096: eukaryotic translation initiation factor 4E binding protein 2 (EIF4EBP2), mRNA." | 1979 | 0.00928793 | 0.00220869 |
| Hs.190386: KIAA0924 protein | 22834 | 0.00928793 | 0.00221333 |
| "NM_007126: valosin-containing protein (VCP), mRNA." | 7415 | 0.00928793 | 0.00231606 |
| "NM_005505: scavenger receptor class B, member 1 (SCARB1), mRNA." | 949 | 0.00928793 | 0.00234903 |
| "NM_002164: indoleamine-pyrrole 2,3 dioxygenase (INDO), mRNA." | 3620 | 0.00928793 | 0.00236421 |
| "NM_002372: mannosidase, alpha, class 2A, member 1 (MAN2A1), mRNA." | 4124 | 0.00928793 | 0.00242591 |
| "NM_024894: hypothetical protein FLJ14075 (FLJ14075), mRNA." | 79954 | 0.00928793 | 0.00246624 |
| "NM_006910: retinoblastoma binding protein 6 (RBBP6), transcript variant 1, mRNA." | 5930 | 0.00928793 | 0.00248399 |
| "(Intron of known gene) NM_006838*: methionyl aminopeptidase 2 (METAP2), mRNA." | 10988 | 0.00928793 | 0.00254214 |
| "NM_020967: nuclear receptor coactivator 5 (NCOA5), mRNA." | 57727 | 0.00928793 | 0.00256545 |
| "(Intron of known gene) NM_032888*: collagen, type XXVII, alpha 1 (COL27A1), mRNA." | 85301 | 0.00928793 | 0.00261889 |
| ENSP00000334034*: Insulin-induced Protein 1. [Source:SWISSPROT;Acc:O15503] | 3638 | 0.00928793 | 0.00261996 |
| "NM_003646: diacylglycerol kinase, zeta 104kDa (DGKZ), mRNA." | 8525 | 0.00928793 | 0.00267562 |
| "NM_001669: arylsulfatase D (ARSD), transcript variant 1, mRNA." | 414 | 0.00928793 | 0.00268101 |
| Hs.16443: hypothetical protein MGC61716 | 130916 | 0.00928793 | 0.00269915 |
| "Hs.132499: actin related protein 2/3 complex, subunit 5-like" | 81873 | 0.00928793 | 0.00270013 |
| "NM_144679: hypothetical protein FLJ31528 (FLJ31528), mRNA." | 146705 | 0.00928793 | 0.00279922 |
| "NM_015259: inducible T-cell co-stimulator ligand (ICOSL), mRNA." | 23308 | 0.00928793 | 0.00281981 |
| "NM_153283: hyaluronoglucosaminidase 1 (HYAL1), transcript variant 3, mRNA." | 3373 | 0.00928793 | 0.00282845 |
| Hs.37890: hypothetical protein LOC200010 | 200010 | 0.00928793 | 0.00285408 |
| "NM_001774: CD37 antigen (CD37), mRNA." | 951 | 0.00928793 | 0.00288764 |
| "NM_033255: epithelial stromal interaction 1 (breast) (EPSTI1), mRNA." | 94240 | 0.00928793 | 0.00296447 |
| (Intron of known gene) AX721100 | 163227 | 0.00928793 | 0.00297366 |
| "NM_022733: hypothetical protein AL133206 (LOC64744), mRNA." | 64744 | 0.00928793 | 0.00301084 |
| ENSP00000318908: none_available | 26084 | 0.00928793 | 0.00301283 |
| "NM_002270*: karyopherin (importin) beta 2 (KPNB2), transcript variant 1, mRNA." | 3842 | 0.00928793 | 0.00301578 |
| "NM_004625: wingless-type MMTV integration site family, member 7A (WNT7A), mRNA." | 7476 | 0.00928793 | 0.0030409 |
| "NM_005443: 3'-phosphoadenosine 5'-phosphosulfate synthase 1 (PAPSS1), mRNA." | 9061 | 0.00928793 | 0.00308315 |
| "NM_006730: deoxyribonuclease I-like 1 (DNASE1L1), mRNA." | 1774 | 0.00928793 | 0.00309389 |
| "NM_005762: tripartite motif-containing 28 (TRIM28), mRNA." | 10155 | 0.00928793 | 0.00311991 |
| "NM_153350: hypothetical protein MGC33974 (MGC33974), mRNA." | 146330 | 0.00928793 | 0.0032378 |
| "NM_022371: torsin family 3, member A (TOR3A), mRNA." | 64222 | 0.00928793 | 0.00327619 |
| "NM_001886: crystallin, beta A4 (CRYBA4), mRNA." | 1413 | 0.00928793 | 0.00334147 |
| "(Intron of known gene) NM_002163*: interferon consensus sequence binding protein 1 (ICSBP1), mRNA." | 3394 | 0.00928793 | 0.00339749 |
| "NM_032515*: BCL2-related ovarian killer (BOK), mRNA." | 666 | 0.00928793 | 0.0034043 |
| "NM_145307: rhotein 2 (RTKN2), mRNA." | 219790 | 0.00928793 | 0.00344349 |
| "NM_001111: adenosine deaminase, RNA-specific (ADAR), transcript variant ADAR-a, mRNA." | 103 | 0.00928793 | 0.00350487 |
| "NM_002867: RAB3B, member RAS oncogene family (RAB3B), mRNA." | 5865 | 0.00928793 | 0.00365516 |
| "NM_025151: Rab coupling protein (RCP), mRNA." | 80223 | 0.00928793 | 0.00369045 |
| "NM_000668: alcohol dehydrogenase IB (class I), beta polypeptide (ADH1B), mRNA." | 125 | 0.00928793 | 0.00369308 |
| "Hs.445445: ash1 (absent, small, or homeotic)-like (Drosophila)" | 55870 | 0.00928793 | 0.00371779 |
| Hs.370671: KIAA0404 protein | 23130 | 0.00928793 | 0.00373492 |
| "NM_012272: Huntingtin interacting protein C (HYPC), mRNA." | 25766 | 0.00928793 | 0.00373953 |
| "NM_017731: oxysterol binding protein-like 7 (OSBPL7), transcript variant 2, mRNA." | 114881 | 0.00928793 | 0.00379899 |

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| "NM_001645: apolipoprotein C-I (APOC1), mRNA." | 341 | 0.00928793 | 0.00391475 |
| "NM_003043: solute carrier family 6 (neurotransmitter transporter, taurine), member 6 (SLC6A6), mRNA." | 6533 | 0.00928793 | 0.00392331 |
| "NM_017565: family with sequence similarity 20, member A (FAM20A), mRNA." | 54757 | 0.00928793 | 0.00399293 |
| "(Intron of known gene) NM_025126*: ring finger protein 34 (RNF34), mRNA." | 80196 | 0.00928793 | 0.00407351 |
| Hs.195642: KIAA1554 protein | 57674 | 0.00928793 | 0.00408273 |
| "NM_005861*: STIP1 homology and U-Box containing protein 1 (STUB1), mRNA." | 10273 | 0.00928793 | 0.00416474 |
| "NM_001549: interferon-induced protein with tetratricopeptide repeats 4 (IFIT4), mRNA." | 3437 | 0.00928793 | 0.00417958 |
| "NM_152423: hypothetical protein FLJ33516 (FLJ33516), mRNA." | 139221 | 0.00928793 | 0.00428971 |
| "(Intron of known gene) NM_033133*: 2',3'-cyclic nucleotide 3' phosphodiesterase (CNP), mRNA." | 1267 | 0.00928793 | 0.00429302 |
| "NM_015621: DKFZP434C171 protein (DKFZP434C171), mRNA." | 26112 | 0.00928793 | 0.00454719 |
| "NM_020647: junctophilin 1 (JPH1), mRNA." | 56704 | 0.00928793 | 0.00455805 |
| "NM_017588: WD repeat domain 5 (WDR5), transcript variant 1, mRNA." | 81857 | 0.00928793 | 0.00461477 |
| "(Intron of known gene) NM_004462*: farnesyl-diphosphate farnesyltransferase 1 (FDFT1), mRNA." | 2222 | 0.00928793 | 0.00465175 |
| "NM_016540: G protein-coupled receptor 83 (GPR83), mRNA." | 10888 | 0.00928793 | 0.00479066 |
| AK095960* | 26135 | 0.00928793 | 0.00488951 |
| "NM_002720*: protein phosphatase 4 (formerly X), catalytic subunit (PPP4C), mRNA." | 5531 | 0.00928793 | 0.00497112 |
| "NM_004286: GTP binding protein 1 (GTPBP1), mRNA." | 9567 | 0.00928793 | 0.00499465 |
| "NM_003141: Sjogren syndrome antigen A1 (52kDa, ribonucleoprotein autoantigen SS-A/Ro) (SSA1), mRNA." | 6737 | 0.00928793 | 0.00509123 |
| "NM_017841: hypothetical protein FLJ20487 (FLJ20487), mRNA." | 54949 | 0.00928793 | 0.0050948 |
| "NM_020926: BCL6 co-repressor (BCOR), transcript variant 2, mRNA." | 54880 | 0.00928793 | 0.00510756 |
| Hs.152925: KIAA1268 protein | 54625 | 0.00928793 | 0.00515657 |
| "(Intron of known gene) NM_003234*: transferrin receptor (p90, CD71) (TFRC), mRNA." | 7037 | 0.00928793 | 0.00520185 |
| "NM_006615: calpain 9 (nCL-4) (CAPN9), mRNA." | 10753 | 0.00928793 | 0.00520978 |
| Hs.131727: hypothetical protein from BCRA2 region | 10443 | 0.00928793 | 0.00522498 |
| Hs.114172: betaine-homocysteine methyltransferase 2 | 23743 | 0.00928793 | 0.00534696 |
| "NM_001784: CD97 antigen (CD97), transcript variant 2, mRNA." | 976 | 0.00928793 | 0.00541578 |
| "NM_002406: mannosyl (alpha-1,3-)glycoprotein beta-1,2-N-acetylglucosaminyltransferase (MGAT1), mRNA." | 4245 | 0.00928793 | 0.00544821 |
| "NM_002145: homeo box B2 (HOXB2), mRNA." | 3212 | 0.00928793 | 0.00557039 |
| "NM_005502: ATP-binding cassette, sub-family A (ABC1), member 1 (ABCA1), mRNA." | 19 | 0.00928793 | 0.00563748 |
| "NM_005575*: leucyl/cysteinyl aminopeptidase (LNPEP), mRNA." | 4012 | 0.00928793 | 0.0056701 |
| "NM_024509*: hypothetical protein MGC2656 (MGC2656), mRNA." | 79414 | 0.00928793 | 0.00571614 |
| Hs.142372: KIAA1952 protein | 114991 | 0.00928793 | 0.00579546 |
| "(Intron of known gene) NM_024923*: nucleoporin 210 (NUP210), mRNA." | 23225 | 0.00928793 | 0.00583695 |
| "NM_001982: v-erb-b2 erythroblastic leukemia viral oncogene homolog 3 (avian) (ERBB3), mRNA." | 2065 | 0.00928793 | 0.00587493 |
| "NM_152906: hypothetical protein DKFZp761P1121 (DKFZp761P1121), mRNA." | 128989 | 0.00928793 | 0.00592248 |
| "NM_017925*: hypothetical protein FLJ20686 (FLJ20686), mRNA." | 55667 | 0.00928793 | 0.00594306 |
| "NM_024665: likely ortholog of mouse IRA1 protein (IRA1), mRNA." | 79718 | 0.00928793 | 0.00595159 |
| "NM_020119: zinc finger CCCH type, antiviral 1 (ZC3HAV1), transcript variant 1, mRNA." | 56829 | 0.00928793 | 0.00595763 |
| "(Intron of known gene) S81578: dioxin-responsive gene {putative polyadenylation signal region} [human, hepatoma G2 cell line, mRNA Partial, 302 nt]." | 285855 | 0.00928793 | 0.00606825 |
| "(Intron of known gene) NM_005633*: son of sevenless homolog 1 (Drosophila) (SOS1), mRNA." | 6654 | 0.00928793 | 0.00607629 |
| "NM_003437: zinc finger protein 136 (clone pHZ-20) (ZNF136), mRNA." | 7695 | 0.00928793 | 0.00614846 |
| "NM_004428: ephrin-A1 (EFNA1), transcript variant 1, mRNA." | 1942 | 0.00928793 | 0.00616795 |
| "NM_032496: Rho GTPase activating protein 9 (ARHGAP9), mRNA." | 64333 | 0.00928793 | 0.00619441 |
| Hs.6684: KIAA0476 gene product | 9909 | 0.00928793 | 0.00620357 |
| "Hs.356838: cofactor required for Sp1 transcriptional activation, subunit 7, 70kDa" | 9441 | 0.00928793 | 0.0062065 |
| Hs.18166: KIAA0870 protein | 22898 | 0.00928793 | 0.00620713 |
| "NM_014312: cortical thymocyte receptor (X. laevis CTX) like (CTXL), mRNA." | 23584 | 0.00928793 | 0.00621325 |

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| "NM_012256: zinc finger protein 212 (ZNF212), mRNA." | 7988 | 0.00928793 | 0.00639613 |
| "NM_148887: mitochondrial ribosomal protein L10 (MRPL10), nuclear gene encoding mitochondrial protein, transcript variant 2, mRNA." | 124995 | 0.00928793 | 0.00641418 |
| AL133641*: mRNA; cDNA DKFZp586E1521 (from clone DKFZp586E1521); partial cds. | 146691 | 0.00928793 | 0.00642759 |
| "NM_178812: LYRIC/3D3 (LYRIC), mRNA." | 92140 | 0.00928793 | 0.00657287 |
| "NM_005537: inhibitor of growth family, member 1 (ING1), transcript variant 4, mRNA." | 3621 | 0.00928793 | 0.00668475 |
| "NM_198404: potassium channel tetramerisation domain containing 4 (KCTD4), mRNA." | 386618 | 0.00928793 | 0.00671154 |
| "NM_012068: activating transcription factor 5 (ATF5), mRNA." | 22809 | 0.00928793 | 0.0068112 |
| Hs.85100: WD repeat domain 1 | 9948 | 0.00928793 | 0.00687419 |
| "NM_001571*: interferon regulatory factor 3 (IRF3), mRNA." | 3661 | 0.00928793 | 0.00694057 |
| "NM_080612: GRB2-associated binding protein 3 (GAB3), mRNA." | 139716 | 0.00928793 | 0.00696412 |
| "NM_016532: skeletal muscle and kidney enriched inositol phosphatase (SKIP), transcript variant 1, mRNA." | 51763 | 0.00928793 | 0.00704031 |
| "NM_001412*: eukaryotic translation initiation factor 1A (EIF1A), mRNA." | 1964 | 0.00928793 | 0.00709799 |
| "NM_152751: chromosome 10 open reading frame 30 (C10orf30), mRNA." | 222389 | 0.00928793 | 0.00726416 |
| "NM_015601: DKFZP564G092 protein (DKFZP564G092), mRNA." | 26091 | 0.00928793 | 0.00733738 |
| ENSP00000276816*: Zinc Finger Protein Clone 647. [Source:SWISSPROT;Acc:P15622] | 58500 | 0.00928793 | 0.00735281 |
| "NM_004984: kinesin family member 5A (KIF5A), mRNA." | 3798 | 0.00928793 | 0.00737721 |
| Hs.436977: synaptotagmin-like 3 | 94120 | 0.00928793 | 0.00740049 |
| "Hs.125156: transcriptional adaptor 2 (ADA2 homolog, yeast)-like" | 6871 | 0.00928793 | 0.00757833 |
| "NM_005967: NGFI-A binding protein 2 (EGR1 binding protein 2) (NAB2), mRNA." | 6778 | 0.00928793 | 0.00768345 |
| "NM_004227: pleckstrin homology, Sec7 and coiled-coil domains 3 (PSCD3), mRNA." | 9265 | 0.00928793 | 0.00777825 |
| "NM_015184*: phospholipase C-like 2 (PLCL2), mRNA." | 23228 | 0.00928793 | 0.00800262 |
| "NM_006931: solute carrier family 2 (facilitated glucose transporter), member 3 (SLC2A3), mRNA." | 6515 | 0.00928793 | 0.00805362 |
| "NM_003810: tumor necrosis factor (ligand) superfamily, member 10 (TNFSF10), mRNA." | 8743 | 0.00928793 | 0.00811714 |
| "NM_016353: zinc finger, DHHC domain containing 2 (ZDHHC2), mRNA." | 51201 | 0.00928793 | 0.00814346 |
| "NM_005957: 5,10-methylenetetrahydrofolate reductase (NADPH) (MTHFR), mRNA." | 4524 | 0.00928793 | 0.0081524 |
| "NM_006257: protein kinase C, theta (PRKCQ), mRNA." | 5588 | 0.00928793 | 0.00828138 |
| "(Intron of known gene) NM_004599*: sterol regulatory element binding transcription factor 2 (SREBF2), mRNA." | 6721 | 0.00928793 | 0.00836491 |
| "NM_003200: transcription factor 3 (E2A immunoglobulin enhancer binding factors E12/E47) (TCF3), mRNA." | 6929 | 0.00928793 | 0.00861603 |
| "NM_005238: v-ets erythroblastosis virus E26 oncogene homolog 1 (avian) (ETS1), mRNA." | 2113 | 0.00928793 | 0.00873275 |
| Hs.411875: KIAA1115 protein | 22870 | 0.00928793 | 0.00874256 |
| "NM_032326: hypothetical protein MGC4618 (MGC4618), mRNA." | 84286 | 0.00928793 | 0.00875006 |
| "NM_014837: chromosome 1 open reading frame 16 (C1orf16), mRNA." | 9887 | 0.00928793 | 0.00884651 |
| Hs.298530: RAB27A, member RAS oncogene family" | 5873 | 0.00928793 | 0.00916307 |
| "NM_030926: integral membrane protein 2C (ITM2C), mRNA." | 81618 | 0.00928793 | 0.0092513 |
| "NM_174936*: proprotein convertase subtilisin/kexin type 9 (PCSK9), mRNA." | 255738 | 0.00928793 | 0.00929488 |
| "NM_014140: SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a-like 1 (SMARCAL1), mRNA." | 50485 | 0.00928793 | 0.00952441 |
| BC049379* | 80124 | 0.00928793 | 0.0096404 |
| "NM_015161*: ADP-ribosylation factor-like 6 interacting protein (ARL6IP), mRNA." | 23204 | 0.00928793 | 0.00964763 |
| "NM_014798: KIAA0356 gene product (KIAA0356), mRNA." | 9842 | 0.00928793 | 0.00976387 |
| Hs.78946: cullin 3 | 8452 | 0.00928793 | 0.00984689 |